

**WELLS G&H OU-2
CURRENT TITLE/DEED
250/252 SALEM STREET, WOBURN, MA**

TechLaw researched the current deeds for 250 and 252 Salem Street, Woburn, MA to identify the current owner(s). The current owner of both 250 and 252 Salem Street is the Old Oil Realty Trust with John F. Murphy and Joan Murphy listed as the Trustees.

ASSESSORS ONLINE DATABASE

For Woburn, MA

[New Search](#)[Print](#)[Google Map](#)[Log Out](#)

250 SALEM ST

[Click to enlarge](#)

MBLU : 38/ 01/ 02/ / /

Location: 250 SALEM ST

Owner Name: MURPHY JOHN F TR, JOAN E TR

Account Number: 216990954294 0

**Search for Similiar
Sale Properties**



Parcel Value

	Assessed Value
Buildings	106,400
Extra Building Features	0
Outbuildings	0
Land	191,900
Total:	298,300



Owner of Record

MURPHY JOHN F TR, JOAN E TR
C/O INDUST. VAL. SVCS.
41 HARRIET AVE
BURLINGTON, MA 01803



Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
MURPHY JOHN F TR, JOAN E TR	17547/ 336	1/1/1986	0



Land Use (click here for a list of codes and descriptions)

Land Use Code	Land Use Description
---------------	----------------------

1010

Single Fam



Land Line Valuation

Size	Zone	Assessed Value
0.54 AC	I-P	191,900



Construction Detail

Item	Value
STYLE	Ranch
Stories:	1 Story
Occupancy	1
Exterior Wall 1	Asbest Shingle
Roof Structure:	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Plastered
Interior Flr 1	Hardwood
Heat Fuel	Oil
Heat Type:	Hot Water
AC Type:	None
Total Bedrooms:	03
Total Bthrms:	1
Total Half Baths:	0
Total Rooms:	5



Building Valuation

Item	Value
Living Area	960 square feet
Year Built	1954



Outbuildings (click here for a list of codes and descriptions)

Code	Description	Units
No Outbuildings		

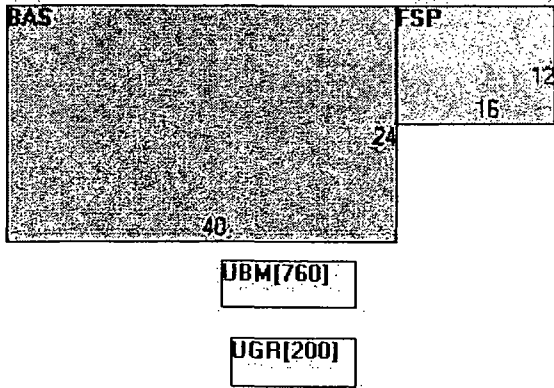


Extra Features (click here for a list of codes and descriptions)

Code	Description	Units
No Extra Building Features		



Building Sketch (click here for a list of codes and descriptions)



Subarea Summary [\(click here for a list of codes and descriptions\)](#)

Code	Description	Gross Area	Living Area
BAS	First Floor	960	960
FSP	Screen Porch	192	0
UBM	Basement, Unfinished	760	0
UGR	Built-in Garage	200	0
Total		2112	960

Online Database for Woburn, MA Powered by **Vision Appraisal Technology**

SEP 30 80 AM 10 46 116E-11.00

BK14080 PG304

RH-30 -
MASSACHUSETTS QUITCLAIM DEED INDIVIDUAL (LONG FORM) 902

John F. Murphy and Joan E. Murphy, husband and wife, as joint tenants
with right of survivorship, both
of Burlington, Middlesex County, Massachusetts
being ~~unmarried~~, for consideration paid, and in full consideration of \$100.00
said John F. Murphy and Joan E. Murphy, as Trustees of OLD OIL REALTY
grants to TRUST, under Declaration of Trust dated September 27, 1980,
to be recorded herewith
of 16 Harriet Avenue, Burlington, MA with quitclaim roomants

the land and buildings in WOBURN commonly spoken of as Walnut Hill,
bounded and described: Beginning at a point northerly in a direct
~~line from the Southeast corner of one Tree on Salem Street about~~
line from the Southeast corner of one Tree on Salem Street about
400 feet and at the point of intersection of the northwesterly corner
of a right of way shown on the plan hereinafter referred to with the
southeasterly side line of the granted premises; thence the line runs
southwesterly 4 feet in the continuation of the said southeasterly side
line of the granted premises; thence turning at an angle of about 96
degrees the line runs northwesterly 99 feet to the point of intersection
of the southwesterly side of the granted premises with land of the
Boston & Maine Railroad; thence turning at an angle of 129 degrees the
line runs northerly by land of the Boston & Maine Railroad 101.4 feet;
thence turning at an angle of 84 degrees and 15 minutes the line runs
easterly by land now or formerly of J. Frank Quinn and Anna M. Quinn,
130 feet to a corner; thence turning at an angle of 83 degrees 30
minutes the line runs by other land of Frank Quinn and Anna M. Quinn,
143.2 feet to a corner; thence turning the line runs southeasterly about
30 feet by the northerly end of the aforesaid right of way to point of
beginning. Said premises containing 15,360 square feet, more or less,
together with the right to have, keep and maintain and use the Railroad
side track for all time over the premises of the said J. Frank Quinn
and Anna M. Quinn adjoining the granted premises on the north as now
located and extending from the northerly side line of the granted
premises over said adjoining premises of the said J. Frank Quinn and
Anna M. Quinn to the Boston & Maine Railroad. Premises conveyed with
the right to use for all purposes for which streets are commonly used
and as a right appurtenant to the granted premises a right of way 15
feet wide beginning at Salem Street at land of said Tree and running
northerly in a curved line by the easterly side of land of said Tree
and over land of said J. Frank Quinn and Anna M. Quinn to the granted
premises as shown on the aforesaid plan. Intending hereby to convey
the same premises as now constitute the oil yard shown on a plan by
March Hill Engineering Co., Stoneham, Mass. drawn by
R. W. H., August 27, 1920, and entitled Estate of
J. Frank Quinn of Salem Street, Woburn, Mass. and duly
recorded with said deeds. A triangular strip along the
Southwesterly side of said oil yard shown in red on said plan
together with side track privileges for the benefit of the
granted premises over land of J. Frank Quinn and Anna M. Quinn
adjoining the granted premises on the north to the Boston &
Maine Railroad tracts as now indicated on said plan together
also with a right of way 15 feet wide from Salem Street shown
on said plan.

Being the same premises conveyed to us by deed dated July 7, 1977 and
recorded in Middlesex South Deeds, Book 13231, Page 240.

This conveyance is subject to a mortgage with Central Co-operative
Bank which the grantees agree to assume and pay.

Witness Our hand and seals this 27th day of September 1980

1st John F. Murphy
John F. Murphy

2nd Joan E. Murphy
Joan E. Murphy

The Commonwealth of Massachusetts

Middlesex ss.

September 27 1980

Then personally appeared the above named John F. Murphy and Joan E. Murphy

and acknowledged the foregoing instrument to be their free act and deed, before me

Edmund S. [Signature]
Notary Public - [Signature]

My Commission Expires 10-29



SEP 30 80 AM 10:46 1208E-11459

John P. Murphy and Joan E. Murphy, husband and wife as joint tenants
with right of survivorship, both
of Burlington, Middlesex County, Massachusetts

being ~~un~~ married, for consideration paid, and in full consideration of \$100.00
said John P. Murphy and said Joan E. Murphy, as Trustees of OLD OIL REALTY
grants to TRUST, under Declaration of Trust dated September 29, 1980 to be
recorded herewith

of 16 Harriet Avenue, Burlington, MA with quitclaim covenants

NOTATION

(Describe the land, buildings, etc.)

A certain parcel of land with the buildings thereon, situated on
Salem Street in said Woburn, bounded and described as follows: namely:

Beginning at the Southwesterly corner of the premises on said Salem
Street at a private way; thence the line runs Easterly by and with
said Salem Street, one hundred and forty-two (142) feet to a stake
at land now or formerly of Hugh Quinn; thence turning the line runs
Northerly by said land now or formerly of Hugh Quinn, one hundred and
seventy-seven (177) feet; thence Northwesterly still by land last
named, fifty-six (56) feet to a stake at said private way; thence
Southerly on and by said private way, two hundred and forty-seven (247)
feet to the point of beginning.

Being the same premises conveyed to us by deed dated July 7, 1977 and
recorded with Middlesex South Deeds, Book 13231, Page 239. This
conveyance is subject to a mortgage with Central Co-operative Bank which
the grantees assume and agree to pay.

Witness our hands and seals this 29th day of September, 1980.

1st John F. Murphy
John P. Murphy

1st Joan E. Murphy
Joan E. Murphy

The Commonwealth of Massachusetts

Middlesex ss. September 29, 1980

Then personally appeared the above named John P. Murphy and Joan E. Murphy
and acknowledged the foregoing instrument to be their free act and deed before me

Edward J. Sullivan
Notary Public - Essex County

My commission expires 10-29

(*Individual — Joint Tenants — Tenants in Common — Tenants by the Entirety.)

CHAPTER 183 SEC. 6 AS AMENDED BY CHAPTER 497 OF 1969

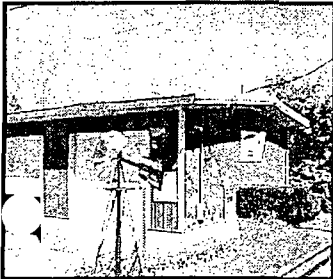
Every deed presented for record shall contain or have endorsed upon it the full name, residence and post office address of the grantor
and a recital of the amount of the full consideration thereof in dollars or the nature of the other consideration therefor, if not delivered
in full consideration thereof.

ASSESSORS ONLINE DATABASE

For Woburn, MA

[New Search](#)[Print](#)[Google Map](#)[Log Out](#)

252 SALEM ST

[Click to enlarge](#)

MBLU : 38/ 01/ 03/ / /

Location: 252 SALEM ST

Owner Name: MURPHY JOHN F, JOAN E TR

Account Number: 166989054324 0

**Search for Similiar
Sale Properties**



Parcel Value

	Assessed Value
Buildings	460,400
Extra Building Features	0
Outbuildings	44,000
Land	454,200
Total:	958,600



Owner of Record

MURPHY JOHN F, JOAN E TR
C/O INDUST. VAL. SVCS.
41 HARRIET AVE
BURLINGTON, MA 01803



Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
MURPHY JOHN F, JOAN E TR	14080/ 304	9/30/1986	100



Land Use (click here for a list of codes and descriptions)

Land Use Code	Land Use Description
---------------	----------------------

4010

IND WHSES MDL-96



Land Line Valuation

Size	Zone	Assessed Value
3.60 AC	I-P	454,200



Construction Detail

Item	Value
STYLE	Garage/Office
MODEL	Industrial
Stories:	1
Occupancy	1
Exterior Wall 1	Concr/Cinder
Exterior Wall 2	Pre-finish Metl
Roof Structure	Gable/Hip
Roof Cover	Asph/F Gls/Cmp
Interior Wall 1	Minim/Masonry
Interior Floor 1	Concr-Finished
Heating Fuel	Gas
Heating Type	Hot Air-no Duc
AC Type	None
Bldg Use	IND WHSES MDL-96
Total Bedrms	00
Total Baths	0
1st Floor Use:	4010
Heat/AC	NONE
Frame Type	STEEL
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	LIGHT
Wall Height	18
% Conn Wall	0



Building Valuation

Item	Value
Living Area	3,548 square feet
Year Built	1989



Outbuildings (click here for a list of codes and descriptions)

Code	Description	Units
TNK3	GT-10,000	80000 GALS



Extra Features (click here for a list of codes and descriptions)

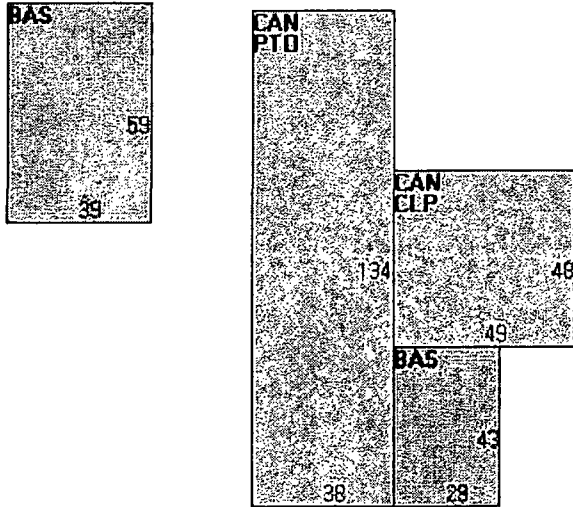
Description

Units

Extra Building Features



Building Sketch (click here for a list of codes and descriptions)



Area Summary (click here for a list of codes and descriptions)

Code	Description	Gross Area	Living Area
BAS	First Floor	3548	3548
CAN	Canopy	7444	0
CLP	Loading Platform, Finished	2352	0
PTO	Patio	5092	0
Total		18436	3548

Online Database for Woburn, MA Powered by **Vision Appraisal Technology**

25.00

EX 17547-334

MASSACHUSETTS GUILTY CLAIM BILLS REPORT FORM (INDIVIDUAL) 881

125

John F. Murphy

of Woburn,
as a tenant in common,

Middlesex County, Massachusetts

being unmarried, for consideration paid, and in full consideration of \$100.00

said John F. Murphy and Joan E. Murphy as Trustees of OLD OIL
grants to REALTY TRUST, under Declaration of Trust dated September 29, 1980
recorded with Middlesex Deeds, Book 14080, Page 276

of 16 Harriet Avenue, Burlington, Mass., 01803 with quitclaim instruments
all of my right, title and interest in

the land with the buildings thereon situated in Woburn, Middlesex
County, Massachusetts bounded and described as follows:

A certain lot of land containing 23,552 square feet, more or
less, situated on Salem Street near the Boston and Lowell Railroad in
the easterly part of said Woburn, and further bounded as follows:

Beginning at the southerly corner of the premises on Salem
Street and running Northwesterly by land of John E. Leonard, one
hundred ninety eight (198) feet to a stake

NORTHEASTERLY by other land parallel with Salem Street, one
hundred five (105) feet to a new street; thence

SOUTHEASTERLY by said new street, one hundred ninety-eight (198)
feet to Salem Street; thence

SOUTHWESTERLY on Salem Street, one hundred thirty-two (132) feet
and six (6) inches to the point of beginning.

The above described lot being a part of the premises formerly
belonging to Betsy Hart and others by deed dated September 25, 1847 and
recorded with Middlesex South District Deeds, Book 518, Page 369,
Meaning to convey to said grantee forever a right to pass and repass
at all times from and to Salem Street over and across said new street
which is laid out twenty feet wide as far north as the northerly side
of the above described lot.

For my title as a tenant in common with Janet L. Beauchamp, William F.
Murphy, Jr. and William F. Murphy, see Estate of Muriel F. Murphy,
Middlesex Probate Court, Docket No. 519599, / D- 14212 - 313

Situs: 250 Salem Street, Woburn 01801

Witness my hand and seal this 31st day of October 1986

John F. Murphy
John F. Murphy

Attest: Notary Public, at Woburn, Mass.

Middlesex

October 31, 1986

Then personally appeared the above named John F. Murphy

and acknowledged the foregoing instrument to be his free act and deed, before me

Edward J. Sullivan
Notary Public - 1000 State Street

My commission expires 10-20-1989

E17547E335

MASSACHUSETTS OUTLAIN DEED SHORT FORM (INDIVIDUAL) - 881

Janet L. Beauchamp, -of Woburn, Middlesex County, Massachusetts, and
William F. Murphy, Jr.

of Woburn, Middlesex County, Massachusetts
as tenants in common,

being unmarried, for consideration paid, and in full consideration of \$16,666.66

grants to John F. Murphy and Joan E. Murphy as Trustees of OLD OIL
REALTY TRUST, under Declaration of Trust dated September 29, 1980
recorded with Middlesex South Deeds, Book 14080, Page 276
of 16 Harriet Avenue, Burlington, Mass., 01803 with outdeline remarks
all of our right, title and interest in
the land with the buildings thereon situated in Woburn, Middlesex
County, Massachusetts bounded and described as follows:

A certain lot of land containing 23,552 square feet, more or
less, situated on Salem Street near the Boston and Lowell Railroad in
the easterly part of said Woburn, and further bounded as follows:
Beginning at the southerly corner of the premises on Salem
Street and running Northwesterly by land of John E. Leonard, one
hundred ninety eight (198) feet to a stake
NORTHEASTERLY by other land parallel with Salem Street, one
hundred five (105) feet to a new street; thence
SOUTHEASTERLY by said new street, one hundred ninety-eight (198)
feet to Salem Street; thence
SOUTHWESTERLY on Salem Street, one hundred thirty-two (132) feet
and six (6) inches to the point of beginning.

The above described lot being a part of the premises formerly
belonging to Betsy Hart and others by deed dated September 25, 1847 and
recorded with Middlesex South District Deeds, Book 518, Page 369;
meaning to convey to said grantees forever a right to pass and repass
at all times from and to Salem Street over and across said new street
which is laid out twenty feet wide as far north as the northerly side
of the above described lot.

For our title as tenants in common with said John F. Murphy and
William F. Murphy, see Estate of Muriel F. Murphy, Middlesex Probate
Court, Docket No. 519599-D. 14272-313



Witness our hand and seal this 21st day of October 1986

Is Janet L. Beauchamp
Janet L. Beauchamp

Is William F. Murphy, Jr.
William F. Murphy, Jr.

Middlesex

Inde personally appeared the above named Janet L. Beauchamp and
William F. Murphy, Jr.
and acknowledged the foregoing instrument to be their free and voluntary act and deed before me

Notary Public - State of Massachusetts
My Commission Expires 10-20-1988

11/03/86 03:10 CT 356 RE 35.03

Situs: 250 Salem Street, Woburn, 01801

17547 336

MASSACHUSETTS GIFT/CLAIM DEED SHORT FORM (INDIVIDUAL) 881

Janet L. Beauchamp, Trustee of Murphy Realty Trust, under Declaration of Trust dated April 10, 1981 and recorded with Middlesex South Registry of Deeds, Book 14272, Page 383.

of Woburn, Middlesex County, Massachusetts

incorporated, for consideration paid, and in full consideration of \$16,666.66

grants to John F. Murphy and Joan E. Murphy as Trustees of OLD OIL REALTY TRUST, under Declaration of Trust dated September 29, 1980 recorded with Middlesex South Deeds, Book 14080, Page 276 of 16 Harriet Avenue, Burlington, Mass., 01803 with quitclaim covenants

the herein

Declaration of Trust

The fifty (50%) per cent interest, as Tenant in Common, of said Murphy Realty Trust, in the land with the buildings thereon situated in Woburn, Middlesex County, Massachusetts bounded and described as follows:

A certain lot of land containing 23,552 square feet, more or less, situated on Salem Street near the Boston and Lowell Railroad in the easterly part of said Woburn, and further bounded as follows;

Beginning at the southerly corner of the premises on Salem Street and running Northwesterly by land of John E. Leonard, one hundred ninety-eight (198) feet to a stake

NORTHEASTERLY by other land parallel with Salem Street, one hundred five (105) feet to a new street; thence

SOUTHEASTERLY by said new street, one hundred ninety-eight (198) feet to Salem Street; thence

SOUTHWESTERLY on Salem Street, one hundred thirty-two (132) feet and six (6) inches to the point of beginning.

The above described lot being a part of the premises formerly belonging to Betsy Hart and others by deed dated September 25, 1847 and recorded with Middlesex South District Deeds, Book 518, Page 369. Meaning to convey to said grantee forever a right to pass and repass at all times from and to Salem Street over and across said new street which is laid out twenty feet wide as far north as the northerly side of the above described lot.

For title, see deed of William F. Murphy, Sr. dated April 10, 1981 recorded with Middlesex South Deeds, Book 14272, Page 393. See also Estate of Muriel F. Murphy, Middlesex Probate Court, Docket No. 519599.

Witness my hand and seal this 31st day of October, 1986

Murphy Realty Trust

Janet L. Beauchamp, Trustee

The Commonwealth of Massachusetts

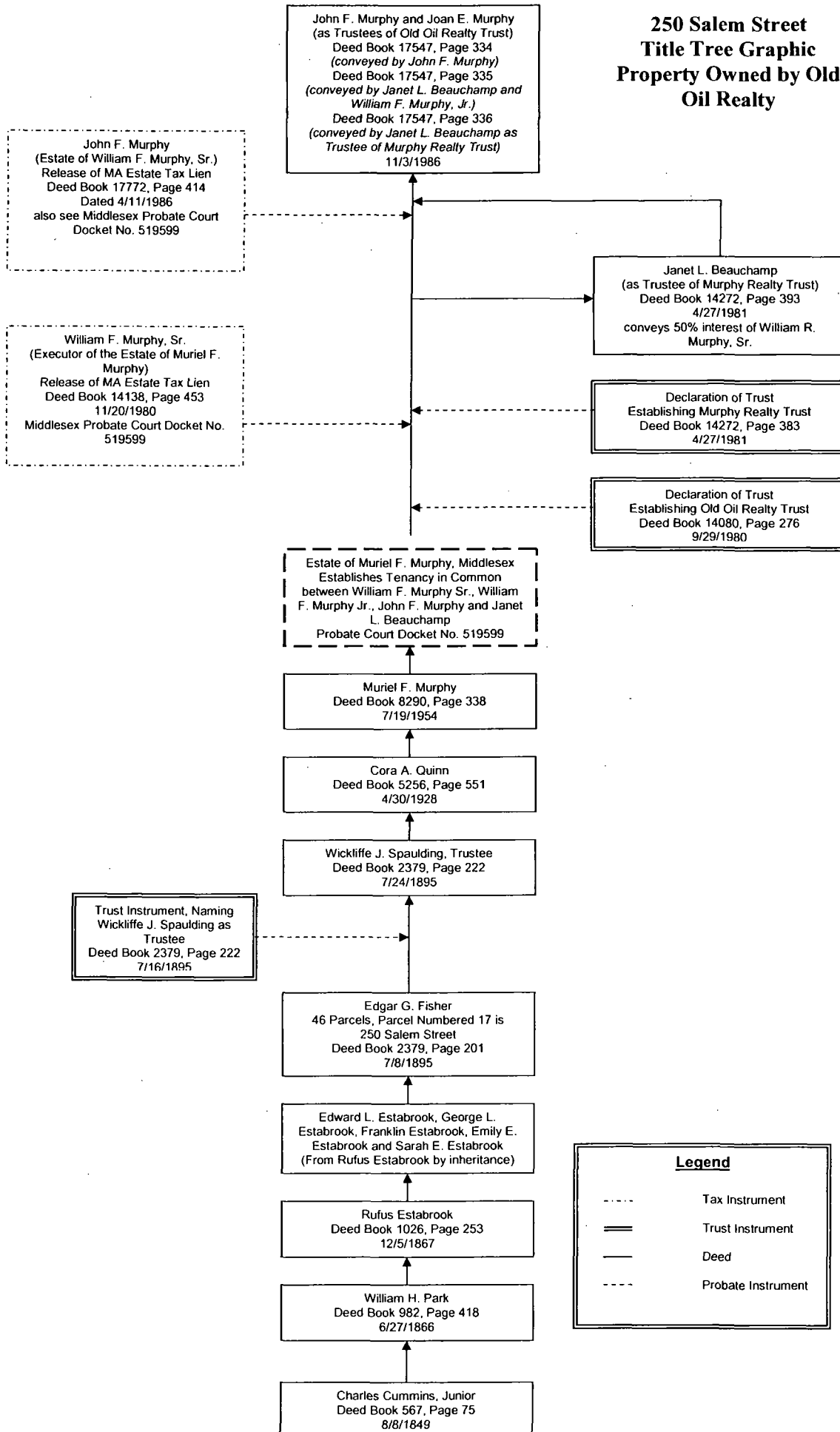
Middlesex

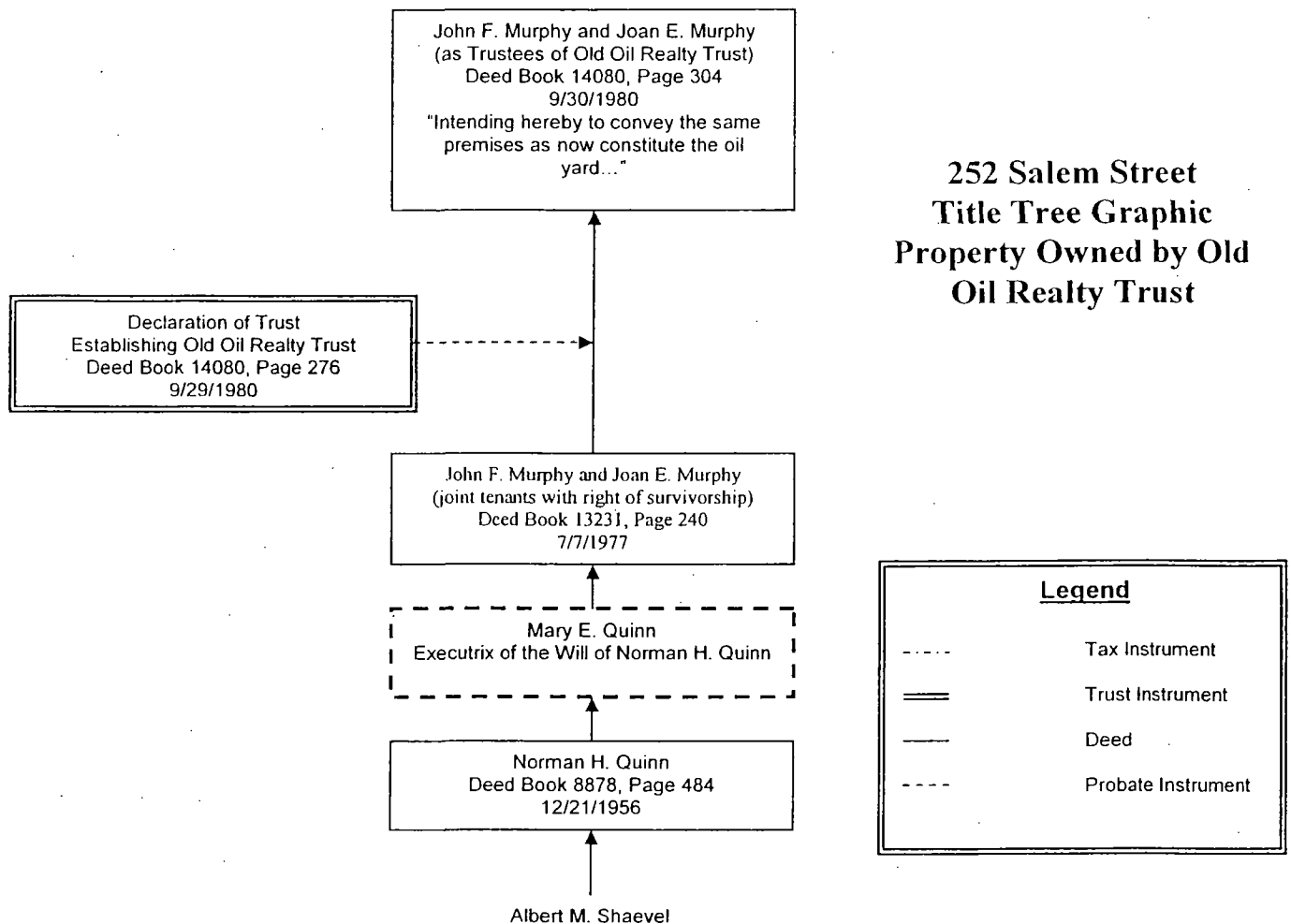
October 31, 1986

Then personally appeared the above named Janet L. Beauchamp, as Trustee of Murphy Realty Trust and acknowledged the foregoing instrument to be when, to free act and deed, before me

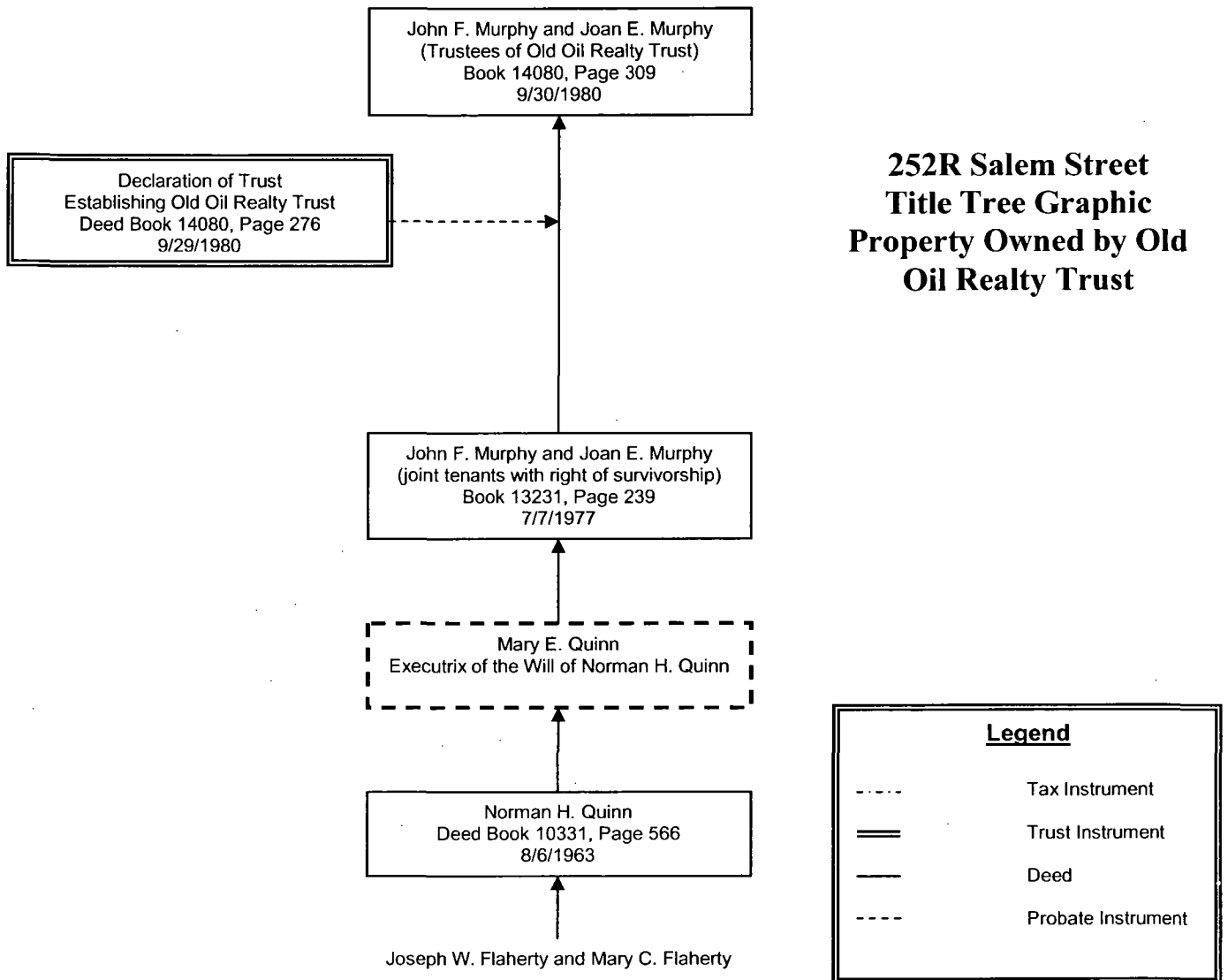
Edward J. [Signature]

**250 Salem Street
Title Tree Graphic
Property Owned by Old
Oil Realty**





The prior title reviews completed by Planners Collaborative, Inc. and Resource Applications, Inc., and William F. Hanscom, Investigator, U.S. Environmental Protection Agency, Office of Site Remediation & Restoration, Search & Cost Recovery Section did not track the ownership of this property back beyond the transfer of the property from Albert M. Shaevel to Norman H. Quinn.



The prior title reviews completed by Planners Collaborative, Inc. and Resource Applications, Inc., and William F. Hanscom, Investigator, U.S. Environmental Protection Agency, Office of Site Remediation & Restoration, Search & Cost Recovery Section did not track the ownership of this property back beyond the transfer of the property from Joseph W. Flaherty and Mary C. Flaherty to Norman H. Quinn.

Title Information- Salem Street Properties (Murphy)

250 Salem Street:

Assessed Owner: John F. and Joan E. Murphy, as Trustees of Old Oil Realty Trust

Assessed Land Value: \$175,900

Assessed Total Value: \$279,500

Land Size: .54 acres

Controlling Instrument(s):

Quitclaim Deed, Book 17547, Page 336

Grantor: Janet L. Beauchamp, Trustee of Murphy Realty Trust

Grantee: John F. and Joan E. Murphy, Trustees of Old Oil Realty Trust

Date of Document: October 31, 1986

Date of Recording: November 3, 1986

Notes: This deed conveys Beauchamp's fifty (50%) percent interest, as Tenant in Common, of said Murphy Realty Trust. This 50% is believed to have been willed to William Murphy, Sr. by Muriel Murphy. William Murphy, Sr. subsequently conveyed Muriel's 50% interest to the Murphy Realty Trust, of which Janet Beauchamp was the Trustee.

Quitclaim Deed, Book 17547, Page 334

Grantor: John F. Murphy, as a tenant in common

Grantee: John F. and Joan E. Murphy, as Trustees of Old Oil Realty Trust

Date of Document: October 31, 1986

Date of Recording: November 3, 1986

Notes: This deed is believed to convey the 50% interest in the property that William Murphy, Sr. held as a result of the land purchase by his late wife, Muriel, from Cora Quinn in 1954. A Release of the Estate Tax Lien for 250 Salem Street, as conveyed by the former William F. Murphy, Sr. to John F. Murphy, dated January 12, 1987, suggests that Murphy, Sr. willed his interest in the property to John F. Murphy.

Supporting Title Documents:

1954-1981:

Quitclaim Deed, Book 8290, Page 338

Grantor: Cora A. Quinn, wife of J. Frank Quinn

Grantee: Muriel F. Murphy, wife of William F. Murphy

Date of Document: July 14, 1954

Date of Recording: July 19, 1954

Notes: Muriel F. Murphy passed away on May 8, 1979. Her 50% interest in the 250 Salem Street property was willed to her husband William.

1981-1986:

Quitclaim Deed, Book 14272, Page 393

Grantor: William F. Murphy, Sr., as Tenant in Common

Grantee: Janet L. Beauchamp, as Trustee of Murphy Realty Trust

Date of Document: April 10, 1981

Date of Recording: April 27, 1981

Notes: Conveys the fifty (50%) percent interest in 250 Salem Street believed to have been inherited by William F. Murphy from the Estate of Muriel Murphy.

* Note: To best clarify the title information for 250 Salem Street, research would need to be conducted at the Southern Middlesex Probate Registry in Cambridge. As of right now, it is not clear how the property was transferred after both Muriel Murphy (1979) and William Murphy, Sr. (1986) had passed away.

252 Salem Street:

Assessed Owner: John F. and Joan E. Murphy, as Trustees of Old Oil Realty Trust

Assessed Land Value: \$454,200

Assessed Total Value: \$916,300

Land Size: 3.6 acres

Controlling Instrument:

Quitclaim Deed, Book 14080, Page 304

Grantor: John F. and Joan E. Murphy, husband and wife, as joint tenants

Grantee: John F. and Joan E. Murphy, as Trustees of Old Oil Realty Trust

Date of Document: September 29, 1980

Date of Recording: September 30, 1980

Supporting Title Document:

1977-1980:

Quitclaim Deed, Book 13231, Page 240

Grantor: Mary E. Quinn, as Executrix under the Will of Norman H. Quinn

Grantee: John F. and Joan E. Murphy, husband and wife, as joint tenants

Date of Document: July 7, 1977

Date of Recording: July 7, 1977

Notes: Being the same premises conveyed to Norman H. Quinn by deed of Albert M. Shaevel, dated December 21, 1956 [8878/484].

252R Salem Street:

* No Assessor's information is on file for property commonly known as 252R Salem Street. We

believe that the Assessor's information for this area is included on the Field Card for 252 Salem Street (see above).

Controlling Instrument:

Quitclaim Deed, Book 14080, Page 309

Grantor: John F. and Joan E. Murphy, husband and wife, as joint tenants

Grantee: John F. and Joan E. Murphy, as Trustees of Old Oil Realty Trust

Date of Document: September 29, 1980

Date of Recording: September 30, 1980

Notes: This property was originally obtained by the Murphy's in 1977 and recorded in Book 13231, Page 239. According to an Order of Conditions form recorded on October 28, 2003 and filed as Book 41295 at Page 111, the aforementioned deed describes the property commonly referred to as 252 Salem Street (Rear).

Supporting Title Document:

1977-1980:

Quitclaim Deed, Book 13231, Page 239

Grantor: Mary E. Quinn, as Executrix under the Will of Norman H. Quinn

Grantee: John F. and Joan E. Murphy, husband and wife, as joint tenants

Date of Document: July 7, 1977

Date of Recording: July 7, 1977

Notes: Being the same premises conveyed to Norman H. Quinn by deed of Joseph W. Flaherty and Mary C. Flaherty, dated August 6, 1963.

MYSTERY PARCELS

Controlling deeds 14080/306 (hereinafter referred to as "MP 1") and 14080/308 (hereinafter referred to as "MP 2") appear to convey sections of what is commonly referred to as 252 Salem Street, however, a review of the Assessor's Map and a search of the Assessor's online database cannot verify this. See below for title chain.

MP 1

Controlling Instrument:

Quitclaim Deed, Book 14080, Page 306

Grantor: John F. and Joan E. Murphy, husband and wife, as Tenants by the Entirety

Grantee: John F. and Joan E. Murphy, as Trustees of Old Oil Realty Trust

Date of Document: September 29, 1980

Date of Recording: September 30, 1980

Notes: Deed states that it is "[m]eaning and intending to convey a triangular piece of land

containing 900 square feet of land.”

Supporting Title Document:

1977-1980:

Quitclaim Deed, Book 13231, Page 243

Grantor: Mary E. Quinn, as Executrix under the Will of Norman H. Quinn

Grantee: John F. and Joan E. Murphy, husband and wife, as Tenants by the Entirety

Date of Document: July 7, 1977

Date of Recording: July 7, 1977

Notes: Being the same premises conveyed to Norman H. Quinn by deed of Daniel J. Quinn, dated January 20, 1951.

MP 2:

Controlling Instrument:

Quitclaim Deed, Book 14080, Page 308

Grantor: John F. and Joan E. Murphy, husband and wife, as joint tenants

Grantee: John F. and Joan E. Murphy, as Trustees of Old Oil Realty Trust

Date of Document: September 29, 1980

Date of Recording: September 30, 1980

Supporting Title Document:

1977-1980:

Quitclaim Deed, Book 13231, Page 242

Grantor: Mary E. Quinn, as Executrix under the Will of Norman H. Quinn

Grantee: John F. and Joan E. Murphy, husband and wife, as joint tenants

Date of Document: July 7, 1977

Date of Recording: July 7, 1977

Notes: Being the same premises conveyed to Norman H. Quinn by deed of Anna M. Quinn and J. Frank Quinn, dated September 22, 1952.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
252 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

July 19, 1954

Muriel F. Murphy, wife of William F. Murphy, Woburn, Massachusetts, acquired a parcel of property containing 23,552 square feet of land, located at 250 Salem, Street, Woburn, Massachusetts, from Cora A. Quinn, Woburn, Massachusetts, for a consideration of \$100.00.¹

September 5, 1962

John F. Murphy and Joan E. Murphy, Woburn, Massachusetts, acquired a parcel of property containing 12,700 square feet of land, located at Wildmere Avenue and Kenmere Avenue, Burlington, Massachusetts, from Joan E. Murphy, Woburn, Massachusetts, for a consideration of \$100.00.²

July 7, 1977

John F. Murphy and Joan E. Murphy, Burlington, Massachusetts, acquired a parcel of property located at Salem Street, Woburn, Massachusetts, from Mary E. Quinn, Executrix of the Norman H. Quinn Estate, Woburn, Massachusetts, for a consideration of \$9,000.00.³

July 7, 1977

John F. Murphy and Joan E. Murphy, Burlington, Massachusetts, acquired a parcel of property containing 14,360 square feet of land, located in the Walnut Hill area of Salem Street, Woburn, Massachusetts, from Mary E. Quinn, Executrix of the Estate of Norman H. Quinn, Woburn, Massachusetts, for a consideration of \$25,000.00.⁴

¹ Book No. 8290, Pages 338-339, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

² Book No. 10115, Page 363, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

³ Book No. 13231, Page 239, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

⁴ Book No. 13231, Pages 240-241, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
252 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

July 7, 1977

John F. Murphy and Joan E. Murphy, Burlington, Massachusetts, acquired a parcel of property located at Salem Street, Woburn, Massachusetts, from Mary E. Quinn, Executrix of the Estate of Norman H. Quinn, Woburn, Massachusetts, for a consideration of \$25,000.00.⁵

July 7, 1977

John F. Murphy and Joan E. Murphy, Burlington, Massachusetts, acquired a parcel of property containing 900 square feet of land, located at Salem Street, Woburn, Massachusetts, from Mary E. Quinn, Executrix of the Estate of Norman H. Quinn, Woburn, Massachusetts, for a consideration of \$1,000.00.⁶

May 8, 1979

Muriel F. Murphy died. William F. Murphy, Sr. was Executor of the Estate which included the property located at 250 Salem Street, Woburn, Massachusetts.⁷

September 30, 1980

A declaration of trust was recorded for the Old Oil Realty Trust. John F. Murphy, 16 Harriett Avenue, Burlington, Massachusetts, was recorded as the subscriber for the trust and holder of 3,000 shares. The following were recorded as the Trustees.

John F. Murphy
Burlington, Massachusetts

Joan E. Murphy

⁵ Book No. 13231, Page 242, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

⁶ Book No. 13231, Page 243, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

⁷ Book No. 14138, Page 453, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
252 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

Burlington, Massachusetts.⁸

September 30, 1980

John F. Murphy and Joan E. Murphy, Trustees of the Old Oil Realty Trust, 16 Harriett Avenue, Burlington, Massachusetts, acquired a parcel of property containing 15,360 square feet of land, located in the Walnut Hill area of Salem Street, Woburn, Massachusetts, from John F. Murphy and Joan E. Murphy, Burlington, Massachusetts, for a consideration of \$100.00.⁹

September 30, 1980

John F. Murphy and Joan E. Murphy, Trustees of the Old Oil Realty Trust, 16 Harriett Avenue, Burlington, Massachusetts, acquired a parcel of property containing 900 square feet of land, located at Salem Street, Woburn, Massachusetts, from John F. Murphy and Joan E. Murphy, Burlington, Massachusetts, for a consideration of \$100.00.¹⁰

September 30, 1980

John F. Murphy and Joan E. Murphy, Trustees of the Old Oil Realty Trust, 16 Harriett Avenue, Burlington, Massachusetts, acquired a parcel of property containing 12,700 square feet of land, located at Wildmere Avenue and Kenmere Avenue, Burlington, Massachusetts, for a consideration of \$100.00.¹¹

September 30, 1980

John F. Murphy and Joan E. Murphy, Trustees of the Old Oil Realty Trust, 16 Harriett Avenue,

⁸ Book No. 14080, Pages 276-303, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

⁹ Book No. 14080, Pages 304-305, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

¹⁰ Book No. 14080, Page 306, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

¹¹ Book No. 14080, Page 307, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
252 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

Burlington, Massachusetts, acquired a parcel of property located at Salem Street, Woburn, Massachusetts, from John F. Murphy and Joan E. Murphy, Burlington, Massachusetts, for a consideration of \$100.00.¹²

September 30, 1980

John F. Murphy and Joan E. Murphy, Trustees of the Old Oil Realty Trust, 16 Harriet Avenue, Burlington, Massachusetts, acquired a parcel of property located at Salem Street, Woburn, Massachusetts, from John F. Murphy and Joan E. Murphy, 16 Harriet Avenue, Burlington, Massachusetts, for a consideration of \$100.00.¹³

April 27, 1981

Janet L. Beaucamp, Trustee of the Murphy Realty Trust, acquired a parcel of property containing 23,552 square feet of land, located at 250 Salem Street, Woburn, Massachusetts, from William F. Murphy, Sr., Woburn, Massachusetts.¹⁴

November 3, 1986

John F. Murphy and Joan E. Murphy, Trustees of the Old Oil Realty Trust, 16 Harriett Avenue, Burlington, Massachusetts, acquired a parcel of property containing 23,552 square feet of land, located at 250 Salem Street, Woburn, Massachusetts, from John F. Murphy, Woburn, Massachusetts, for a consideration of \$100.00.¹⁵

¹² Book No. 14080, Page 308, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

¹³ Book No. 14080, Page 309, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

¹⁴ Book No. 14272, Page 393, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

¹⁵ Book No. 17547, Page 334, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
252 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

November 3, 1986

John F. Murphy and Joan E. Murphy, Trustees of the Old Oil Realty Trust, 16 Harriett Avenue, Burlington, Massachusetts, acquired a parcel of property containing 23,552 square feet of land, located at 250 Salem Street, Woburn, Massachusetts, for a consideration of \$16,666.66.¹⁶

November 3, 1986

John F. Murphy and Joan E. Murphy, Trustees of the Old Oil Realty Trust, 16 Harriett Avenue, Burlington, Massachusetts, acquired a parcel of property containing 23,552 square feet of land, located at 250 Salem Street, Woburn, Massachusetts, from Janet L. Beaucamp, Trustee of the Murphy Realty Trust, for a consideration of \$16,666.66.¹⁷

April 27, 1987

A declaration of trust was recorded for the Murphy Realty Trust. The following were recorded as Trustees.

Janet L. Beaucamp
Woburn, Massachusetts

William F. Murphy, Sr.
Woburn, Massachusetts

Successor Trustee: John F. Murphy
Burlington, Massachusetts¹⁸

¹⁶ Book No. 17547, Page 335, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

¹⁷ Book No. 17547, Page 336, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

¹⁸ Book No. 14272, Page 383, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
252 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

September 23, 1988

A wetlands permit was granted by the Woburn Conservation Commission for a construction project at 252 Salem Street, Woburn, Massachusetts.

Applicant : Murphy's Waste Oil Service
252 Salem Street
Woburn, Massachusetts

Property Owner : Old Oil Realty Trust
16 Harriett Avenue
Burlington, Massachusetts¹⁹

March 20, 1989

The Woburn Conservation Commission, 33 Plympton Street, Woburn, Massachusetts, granted an amendment to the construction permit issued to Murphy's Waste Oil Service, Inc., 252 Salem Street, Woburn, Massachusetts, for work being done at 252 Salem Street.²⁰

March 20, 1989

The Board of Appeals for the City of Woburn, Massachusetts, granted Murphy's Waste Oil Service, Inc., 252 Salem Street, Woburn, Massachusetts, a variance "on height of fence from 6 ft. to 8 ft. for security of storage facility located at 252 Salem Street...."

Old Oil Realty Trust, 16 Harriett Avenue, Burlington, Massachusetts, was recorded as the owner of the property at 252 Salem Street.²¹

¹⁹ Book No. 19350, Pages 370-375, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

²⁰ Book No. 19706, Pages 375-378, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

²¹ Book No. 19706, Pages 379-382, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.



ENVIRONMENTAL SERVICES, INC.

1501 WASHINGTON STREET, P.O. BOX 850327 • BRAINTREE, MA 02185-0327
(781) 849-1800

Visit our Website at www.cleanharbors.com

JULES B. SELDEN
SENIOR COUNSEL
EXTENSION 4182

LAW DEPARTMENT
(781) 849-1800
FAX (781) 356-1375

VIA CERTIFIED MAIL MAIL

December 27, 1999

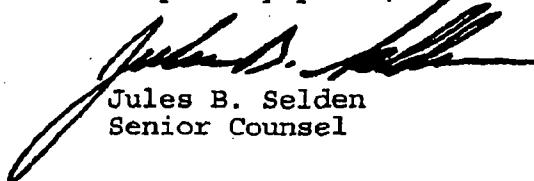
U.S. Environmental Protection Agency
Attn: Martha Bosworth, Responsible Party Coordinator
Office of Site Remediation and Restoration
P.O. Box 8547
Boston, MA 02114

Re: CERCLA Section 104(e) Request for Information
Relating to the Beede Waste Oil Superfund Site

Dear Ms. Bosworth:

Enclosed please find Clean Harbors, Inc.'s responses to the above-referenced Request for Information dated October 4, 1999. Also enclosed is an executed Declaration.

Very truly yours,



Jules B. Selden
Senior Counsel

Enclosures

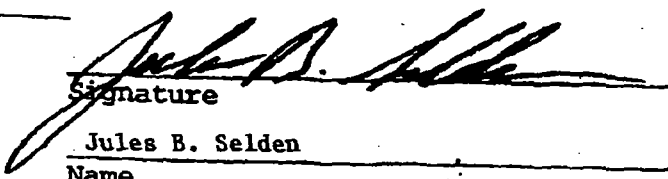
cc: Cynthia A. Lewis, Esquire (w/o encs)

8032-0019

Declaration

I declare under penalty of perjury that I am authorized to
respond on behalf of Clean Harbors, Inc. and that the
Respondent
foregoing is complete, true, and correct.

Executed on Dec. 27, 1999


Signature

Jules B. Selden

Name

Senior Counsel

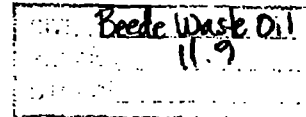
Title

DATE	Beede Waste 0.1
TIME	11.9
BY	

December 27, 1999

**CLEAN HARBORS, INC.'S RESPONSES TO REQUEST FOR INFORMATION
PURSUANT TO SECTION 104 OF CERCLA, FOR THE BEEDE WASTE OIL
SUPERFUND SITE, 7 KELLEY ROAD, PLAISTOW, NEW HAMPSHIRE**

- 1.a Clean Harbors, Inc.
1501 Washington Street
P.O. Box 9048
Braintree, MA 02185-9048



Respondent, Clean Harbors, Inc., is a holding company which conducts all of its business through wholly-owned subsidiary corporations. Clean Harbors, Inc. owns 100% of the stock of each of its subsidiaries. These corporations, and their primary business locations, are as follows:

Clean Harbors Environmental Services, Inc. (corporate offices at 1501 Washington Street, Braintree, MA and nationally located throughout continental U.S. and Puerto Rico)

Clean Harbors of Braintree, Inc. (TSDF, 1 Hill Avenue (f/n/a 385 Quincy avenue), Braintree, MA)

Clean Harbors of Natick, Inc. (TSDF, 10 Mercer Road, Natick, MA)

Clean Harbors of Baltimore, Inc. (TSDF, 1910 Russell Street, Baltimore, MA)

Clean Harbors Services, Inc. (TSDF, 11700 and 11800 S. Stony Island Avenue, Chicago, IL)

Murphy's Waste Oil Service, Inc. (waste oil facility, 252 Rear Salem Street, Woburn, MA)

Clean Harbors Kingston Facility Corporation (30 Joseph Street Kingston, MA)

Clean Harbors of Connecticut, Inc. (TSDF, 51 Broderick Road, Bristol, CT)

Mr. Frank, Inc. (inactive transportation company, Illinois)
Spring Grove Resource Recovery, Inc. (TSDF, 4879 Spring Grove Avenue, Cincinnati, OH)

Harbor Management Consultants, Inc. (30 Joseph Street, Kingston, MA)

Northeast Casualty Risk Retention Group, Inc. (captive insurance company, 1501 Washington Street, Braintree, MA)

All of the responses provided below are the responses of Clean Harbors, Inc. and/or the applicable subsidiary corporation.

Of further note, Clean Harbors, Inc. and all subsidiaries except Clean Harbors Environmental Services, Inc. have no employees. All Clean Harbors employees, regardless of whether they are employed at Corporate Headquarters, at a TSDF, at a field services or sales office, or at a waste oil facility (e.g., Murphy's Waste Oil Service, Inc.), in the continental United States and Puerto Rico, are on the payroll of Clean Harbors Environmental Services, Inc. and considered to be employees of "Clean Harbors", regardless of the name of the corporate entity where they are located.

[Response provided by Jules B. Selden]

1.b Jules B. Selden, Esquire
Senior Counsel
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048
(781) 849-1800, ext. 4182
(781) 356-1375 (fax)

William F. O'Connor *
Vice President, Human Resources
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Stephen Moynihan *
Senior Vice President
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Carl Paschetag, Jr. *
Vice President and Controller
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Paul T. Whiting *
Vice President, Facilities
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Scott Day *
General Manager, Oil Recycling Division
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Mark Sullivan *
Project Manager
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

George L. Curtis *
Vice President, Transportation & Disposal Services
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

William J. Gerow *
Account Manager (former Interex Operations Manager)
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Eric Gerstenberg *
Vice President, Disposal Services
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Peter Egan *
Director of Regulatory Affairs
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Mark R. Arriens *
Director, Health & Safety
Clean Harbors Environmental Services, Inc.
1501 Washington Street

P.O. Box 859048
Braintree, MA 02185-9048

Christopher Borowy *
Facility Compliance Manager, Clean Harbors of Connecticut
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

C. Michael Malm, Esquire *
Corporate Clerk, Clean Harbors, Inc. and Subsidiaries
Davis, Malm & D'Agostine, P.C.
One Boston Place
Boston, MA 02108
(617) 367-2500
(617) 523-6215 (fax)

* Contact with this individual should be initiated through the individual listed in the response to Question No. 1.c below.

1.c Jules B. Selden, Esquire
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

(781) 849-1800, ext. 4182
(781) 356-1375 (fax)

1.d Respondent, having conducted a diligent investigation, has no information indicating that it ever did business with the known corporations who operated at the Beede Waste Oil Superfund Site. Respondent has an extensive audit program and only transports waste to, and disposes waste at, third-party facilities which it has audited and approved. During or about 1990, Clean Harbors audited the Beede Site, and did not approve it for transport and/or disposal of Respondent's or its customers' wastes.

o Respondent is aware that in 1997 or 1998, EPA Region I sent CERCLA Section 104 Requests for Information to various entities (which did not include Respondent) in which it listed Recycling Industries, Inc. as an independent transporter which was being investigated in relation to the Beede Waste Oil Site. Recycling Industries, Inc. (RII) operated in Braintree, MA in the 1970's. In 1983, SCA Chemical Services (MA), Inc. (SCA) purchased the stock of RII, and in 1984, Chemical Waste Management, Inc. (CWM) purchased the stock of SCA. In

1985, Clean Harbors of Braintree, Inc. purchased the stock of SCA from CWM. Respondent has no information as to whether RII or SCA ever did business with the Beede Waste Oil Site. As stated in the notes to the response to Question 1.i below, all Superfund site issues arising with respect to Recycling Industries, Inc. and SCA Chemical Services (MA), Inc. are handled for Respondent by Chemical Waste Management. Respondent has no independent knowledge with respect to such issues.

- o Respondent's investigation has also indicated that, to the best of the knowledge and recollection of a former Murphy's driver/employee, during the period from 1981 through its time of purchase by Clean Harbors on February 8, 1989 (the Transaction date), Murphy's Waste Oil Service, Inc. did not transport any wastes to the Beede Site.
- o Joan E. Murphy, a former (pre-Transaction) officer, director and shareholder of Murphy's Waste Oil Service, Inc., has stated through her attorney, George P. Luker, that, to the best of her recollection, Murphy's Waste Oil Service, Inc. never had any pre-Transaction dealings with the known corporations who operated at the Beede Waste Oil Superfund Site (i.e., those corporations listed in EPA's October 4, 1999 letter).

Respondent, having conducted a diligent investigation, has no information indicating that it ever used any of the independent transporters listed in the EPA's letter to transport its or its customers' wastes to any location. Respondent has an extensive audit program and only uses third-party transporters which it audits and approves. None of the listed transporters has been or is on Respondent's approved list.

However, Respondent did business with the following listed transporters as follows:

A & A Waste Oil: During or about 1993, Clean Harbors purchased some waste oil from A & A Waste Oil. It was delivered to Murphy's Waste Oil Service, Inc.'s facility at 252 Rear Salem Street, Woburn, MA.

Bonner Industries: For about an approximate six-month period during 1993, Clean Harbors purchased some waste oil from Bonner Industries. It was delivered to Murphy's Waste Oil Service, Inc.'s facility at 252 Rear Salem Street, Woburn, MA.

Marlyn Engineering Corporation:

During the 1983 to 1984 time period, Clean Harbors of Kingston, Inc. (n/k/a Clean Harbors Environmental Services, Inc.) hired Marlyn Engineering Corporation to sandblast some storage tanks at the Clean Harbors Kingston Facility Corporation location, 30 (formerly 100) Joseph Street, Kingston, MA. Clean Harbors disposed of its own waste from the activity, and did not use Marlyn Engineering Corporation to transport or dispose of it.

Joan E. Murphy, a former (pre-Transaction) officer, director and shareholder of Murphy's Waste Oil Service, Inc., has stated through her attorney, George P. Luker, that, to the best of her recollection, Murphy's Waste Oil Service, Inc. never had any dealings with the transporters listed in EPA's October 4, 1999 letter.

[Response provided by Jules B. Selden, Scott Day, Mark Sullivan, Peter Egan, Eric Gerstenberg, Christopher Borowyl]

1.e See response to Question 1.d above.

1.f Respondent currently conducts a waste oil business, Murphy's Waste Oil Service, Inc., at 252 Rear Salem Street, Woburn, Massachusetts. Waste oil and oily water, collected from industrial sources, spills, etc. throughout New England, are transported to the facility. The incoming waste is tested for PCBs, total halogens and flash point in accordance with the Facility's permit. If the material is determined to be suitable for acceptance, it is offloaded, treated and recycled. The treated water is bulked and transported to Clean Harbors' facility in South Portland, Maine for discharge to a P.O.T.W., sludges are stabilized and sent either to a secure landfill or to a non-hazardous waste incinerator, and the reclaimed oil is resold as specification used fuel oil.

Respondent's facility located at 30 (formerly 100) Joseph Street, Kingston, Massachusetts, is currently used to store excess waste oil, and also serves as a base for a waste oil collection truck. Although it maintains a valid permit, no treatment or recycling of waste oil is performed at that location. The location also houses Clean Harbors' training facilities and is the office headquarters for Harbor Management Consultants, Inc. and Harbor Industrial Services (a recently established division of Clean Harbors Environmental Services, Inc.).

[Response provided by Scott Day and Jules B. Selden]

- 1.g The SIC code is 4953.

[Response provided by Scott Day]

- 1.h During the period being investigated, Respondent's business at 232 Rear Salem Street, Woburn, Massachusetts, was the same as that described in the response to Question 1.f above.

During the period being investigated Respondent's business at 30 (formerly 100) Joseph Street, Kingston, Massachusetts was substantially the same as that described in the response to Question 1.f above (i.e., waste oil storage, training facilities, offices). In addition, waste oil treatment and recycling were also performed at the Facility in the 1980's, and, at various times, the location also housed Respondent's sign-painting shop, a research and development laboratory, and a base for Field Services personnel and equipment.

[Response provided by Scott Day and Jules B. Selden]

- 1.i Strasburg Landfill Site, Coatesville, PA (1)

Sealand Site, Mt. Pleasant, DE (1)

Galaxy/Spectron Site, Elkton, MD (1), (12)

Industrial Solvents & Chemical Co. Site, Newberry Township, York County, PA (1)

Seaboard Chemical Co. Site, Jamestown, NC (2), (3)

Union Chemical Site, South Hope, ME (3)

Solvents Recovery Service ("SRS") of New England Site, Southington, CT (4)

American Chemical Services, Inc. Site, Griffith, IN (5)

Midco I & II Sites, Gary, Indiana (5)

Lake Sandy Jo Site, Gary, IN (5)

PCB Treatment, Inc. Sites, Kansas City, MO and Kansas City, KS (5)

Cannons Engineering Corp. Sites, Bridgewater, MA, Plymouth, MA and Nashua, NH (6)

Keefe Site, Epping, NH (7)
Silresin Site, Lowell, MA (8)
Charles George Landfill Site, Tyngsboro, MA (9)
SCP Sites, Carlstadt, NJ and Newark, NJ (10)
Lone Pine Landfill Site, Freehold Township, NJ (10)
Re-Solve Superfund Site, South Dartmouth, MA (11)
Landfill & Resource Recovery Site, North Smithfield, RI (11)

Notes:

- (1) Respondent is a PRP by virtue of its acquisition of ChemClear, Inc. in 1989.
- (2) Respondent is a de minimis PRP by virtue of its acquisition of ChemClear, Inc. in 1989.
- (3) Clean Harbors of Clean Harbors of Kingston, Inc. (n/k/a Clean Harbors Environmental Services, Inc.) is a PRP as a result of having been a transporter.
- (4) Respondent is a PRP as a result of its purchase of the stock of Connecticut Treatment Corporation (n/k/a Clean Harbors of Connecticut, Inc.) from Southdown, Inc. Southdown, Inc., as owner of Connecticut Treatment Corporation at the time of disposal, is handling this matter for Respondent as indemnitor.
- (5) Respondent is a PRP or potential PRP as a result of its purchase of Mr. Frank, a now inactive transportation company which transported wastes to the site.
- (6) Clean Harbors of Braintree, Inc. and Clean Harbors of Natick, Inc. are named PRP's as a result of their respective predecessor businesses (Recycling Industries, Inc. and Interex Corporation) having disposed of waste at the Site. Chemical Waste Management, as the owner of those businesses at the time of disposal, is handling the matter for Respondent as indemnitor.
- (7) Clean Harbors of Natick, Inc. is a named PRP as a result of its predecessor business (Interex Corporation) having disposed of waste at the Site. Chemical Waste Management, as the owner of that business at the time of disposal, is handling the matter for Respondent as indemnitor.

- (8) Clean Harbors of Braintree, Inc. and Clean Harbors of Natick, Inc. were named de minimis PRP's as a result of their respective predecessor businesses (Recycling Industries, Inc. and Interex Corporation) having disposed of waste at the Site. Chemical Waste Management, as the owner of those businesses at the time of disposal, handled the matter for Respondent as indemnitor, and there was a de minimis settlement in 1992.
- (9) Clean Harbors of Braintree, Inc. was named a PRP as a result of a predecessor business (Recycling Industries, Inc.) having disposed of waste at the Site. Chemical Waste Management, as the owner of that business at the time of disposal, is handling the matter for Respondent as indemnitor.
- (10) Clean Harbors of Braintree, Inc. was named a PRP as a result of a predecessor business (Recycling Industries, Inc.) having disposed of waste at the Site. Chemical Waste Management, as the owner of that businesses at the time of disposal, handled the matter for Respondent as indemnitor, and Clean Harbors of Braintree, Inc. was a settling PRP.
- (11) Clean Harbors of Braintree, Inc. and Clean Harbors of Natick, Inc. are named PRP's as a result of their respective predecessor businesses (Recycling Industries, Inc. and Interex Corporation) having disposed of waste at the Site. Chemical Waste Management, as the owner of those businesses at the time of disposal, handled the matter for Respondent as indemnitor and Clean Harbors of Braintree, Inc. and Clean Harbors of Natick, Inc. were settling PRP's.
- (12) Clean Harbors of Braintree, Inc. was named a PRP as a result of a predecessor business (SCA Chemical Services (MA), Inc.) having disposed of waste at the Site. Chemical Waste Management, as the owner of that businesses at the time of disposal, is handling the matter for Respondent as indemnitor.

[Response provided by Jules B. Selden]

- 1.j Based upon its diligent investigation, Respondent states that, except for requests for information which Respondent may have received in connection with any Superfund sites in Region I listed in the response to Question 1.i above, Respondent has received no such requests for information from EPA Region I.

[Response provided by Jules B. Selden]

- 2.a Respondent has general knowledge that wastes were disposed of, treated, stored or recycled at the Beede Waste Oil Site. This knowledge comes as a result of Respondent's being in the hazardous waste and waste oil business. Respondent is aware that the Beede Site is a Superfund site, and has general knowledge such as that provided in the "Site Description" which accompanies EPA CEPCLA Section 104 Requests for Information. This knowledge was gained from publications and information in the public domain.

Respondent also knows that the above activities were conducted on the Site because, in recent years, Clean Harbors Environmental Services, Inc. has performed work as a subcontractor to EPA's contractors and others on the Site. Clean Harbors Environmental Services, Inc. also reviews various requests for proposals (RFP's) associated with the Site.

[Response provided by Jules B. Selden]

- 2.b Not Applicable. See response to Question No. 1.d above.
- 2.c Not Applicable. See response to Question No. 1.d above.
- 2.d Not Applicable. See response to Question No. 1.d above.
- 2.e Not Applicable. See response to Question No. 1.d above.
- 2.f Not Applicable. See response to Question No. 1.d above.

- 3.a Respondent, through its subsidiary corporations, provides waste management services, including transportation, treatment, storage, and disposal of hazardous and non-hazardous waste, emergency response services, site investigation and remediation, analytical laboratory services and the collection, recycling and resale of waste oil. The foregoing nature of Respondent's business has not changed significantly since 1980.

With respect to its waste oil operations, in 1981 Respondent started operating its Kingston, Massachusetts facility and used heat, demulsifiers, filtration and centrifuges to clean waste oil and to recover waste oil from water. This same operation was also commenced in South Portland, Maine in the mid-1980's. In 1990, upon opening its refurbished Murphy's Waste Oil Service, Inc. facility in Woburn, MA, gravity

separation and filtration were used to clean waste oil at that location.

[Response provided by Jules B. Selden and Scott Day]

- 3.b Respondent recycled specification and off-specification waste oil and oily water. The types and quantities of used or waste oils stored, treated, handled or reclaimed by Respondent from 1980 through August 1994 cannot be calculated or otherwise ascertained. Millions of gallons were involved. The information is contained in tens (or possibly hundreds) of thousands of manifests and shipping documents stored at Respondent's facilities.

The documents stored at the Murphy's Waste Oil Service, Inc. facility in Woburn, Massachusetts do not include those generated prior to the Transaction. Respondent never received those documents from the former owners of Murphy's Waste Oil Service, Inc..

[Response provided by Scott Day, Peter Egan and Jules B. Selden]

- 3.c As stated above, Respondent recycled specification and off-specification waste oil and oily water. Each facility has a Waste Analyses Plan which is part of its government approved and issued license or permit, and all documentation associated therewith is maintained at each facility. Thousands of manifests, shipping documents and laboratory analyses sheets are generated each month at each facility. The requirements, procedures and parameters followed are set forth in 40 CFR Part 279 (and the facility's license or permit). Specific constituents of the waste oil are set forth on the tens (or possibly hundreds) of thousands of manifests, analytical reports and shipping documents maintained at Respondent's facilities. Each of Respondent's facilities processes thousands of these documents per month.

[Response provided by Scott Day and Peter Egan]

- 3.d See responses to Questions 3.b and 3.c above.

- 3.e Waste oils and oil additives were stored in steel tanks.

[Response provided by Scott Day]

- 3.f See response to Question 3.a above.

3.g See response to Question 3.a above.

3.h See response to Question 3.a above.

3.i The water portion of the waste was treated with chemicals and then discharged to a P.O.T.W. The sludges were stabilized and shipped to numerous secure landfill sites which had been audited and approved by Respondent. The reclaimed oil was sold as fuel to industrial boilers and furnaces.

[Response provided by Scott Day]

3.j The waste oils were generated by oil spills (vehicle accidents, industrial accidents, etc.), tank cleaning activities, engine oil changes, and industry's removal of oil and/or oily water no longer suitable for its intended use.

[Response provided by Scott Day]

4.a On February 8, 1989, Clean Harbors of Kingston, Inc. (then a wholly-owned subsidiary of Clean Harbors, Inc.) purchased 100% of the stock of Murphy's Waste Oil Service, Inc. by way of a Stock Purchase Agreement. On October 20, 1989, the stock was transferred to Clean Harbors, Inc. which presently owns 100% of the stock of Murphy's Waste Oil Service, Inc.

[Response provided by Jules B. Selden]

4.b See Exhibit 4.b attached hereto.

Notes:

- o Exhibit D to the Stock Purchase Agreement, entitled "Tax Returns with 'Balance Sheet'" or "Tax Returns" was not included in the original closing binder when it was put together in 1989. A diligent search by Respondent and its counsel could not locate these documents.
- o Tab No. 3 in the closing binder is entitled "New Stock Certificate: Clean Harbors of Kingston, Inc. - 100 Shares - N/I". The term "N/I" meant that the certificate was not included in the binder. A diligent search by Respondent and its counsel could not locate the certificate or a copy thereof. However, as stated above, on October 20, 1989, the stock was transferred to Clean Harbors, Inc. which presently owns 100% of the stock of Murphy's Waste Oil Service, Inc. A copy of the stock

certificate (indicating that it was transferred from Clean Harbors of Kingston, Inc.) is attached hereto as an Addendum to Exhibit 4.b.

[Response provided by Jules B. Selden]

4.c During the two-year period prior to the Transaction, Clean Harbors was engaged in the following activities:

- o Waste management services, including transportation, treatment, storage, and disposal of hazardous and non-hazardous waste;
- o Emergency response services;
- o Site investigation and remediation;
- o Analytical laboratory services; and
- o Collection, recycling and resale of waste oil.

[Response provided by Jules B. Selden and Scott Day]

4.d During the two-year period after the Transaction, Clean Harbors was engaged in the following activities (which were unchanged from the two-year period prior to the Transaction):

- o Waste management services, including transportation, treatment, storage, and disposal of hazardous and non-hazardous waste;
- o Emergency response services;
- o Site investigation and remediation;
- o Analytical laboratory services; and
- o Collection, recycling and resale of waste oil.

[Response provided by Jules B. Selden and Scott Day]

4.e Murphy's Waste Oil Service, Inc. was originally engaged in the business of collecting, recycling and resale of waste oil. Prior to the Transaction, Clean Harbors was also involved in the same type of business. During the two-year period prior to the Transaction, Murphy's Waste Oil Service, Inc. conducted its business using one employee until September 1987, and then was inactive due to the illness of its President, John F. Murphy. Upon acquisition of the Stock of Murphy's Waste Oil, Inc. on February 8, 1989, Clean

Harbors continued its own business of collecting, recycling and resale of waste oil, both in its own name and under the name of Murphy's Waste Oil Service, Inc. While this was the same type of business which Murphy's Waste Oil Service, Inc. had previously conducted until September 1987, it was not a continuation of Murphy's business per se.

[Response provided by Jules B. Selden, Scott Day and Mark Sullivan]

- 4.f The post-Transaction business of Murphy's Waste Oil Service, Inc. was and is still carried out at the same leased physical location where Murphy's Waste Oil Service, Inc. was located prior to the Transaction. Please note that, as stated in the response to Question 4.e above, this business was not a continuation of Murphy's pre-Transaction business, as that Corporation had been inactive for a 17-month period prior to the Transaction.

[Response provided by Jules B. Selden]

- 4.g.i During the two-year period prior to the Transaction, it was Respondent's business practice to hire individuals who were qualified to fill the available positions. These individuals were identified through responses to advertisements, through referrals from other employees, and through interviews with "walk-in" applicants.

[Response provided by William F. O'Connor]

- 4.g.ii During the two-year period prior to the Transaction, it was Respondent's business practice to train all of its operating personnel, with emphasis on health and safety. It was Respondent's practice to comply with all applicable federal, state and local laws, regulations and ordinances relating to health and safety. (Please note that this is still Respondent's practice.)

[Response provided by Mark R. Arriens and Jules B. Selden]

- 4.g.iii During the two-year period prior to the Transaction, it was Respondent's business practice to train its personnel in their specific job responsibilities. Respondent also operated a training center in Kingston, Massachusetts where it conducted OSHA training for its employees. Respondent's drivers underwent DOT training. In addition, Respondent offered a tuition reimbursement program to its employees for undergraduate courses.

[Response provided by William F. O'Connor]

- 4.g.iv During the two-year period prior to the Transaction, it was Respondent's business practice to set pricing based upon its costs to transport, treat and dispose of waste and its analyses of volumes of waste available in the marketplace which it could expect to receive from its customers. Respondent's knowledge of its competitors' pricing was also a factor.

[Response provided by George L. Curtis]

- 4.g.v During the two-year period prior to the Transaction, it was Respondent's business practice to engage in sales promotion through its own sales force calling on customers, through direct mailing of brochures, through appearances at trade shows, and through public advertising (Yellow Pages, radio, advertisements in professional publications, etc.).

[Response provided by George L. Curtis]

- 4.g.vi Respondent has always used in own sales forces and its own operating personnel (including subcontractors) to provide services to its customers. It has never used distributors.

[Response provided by George L. Curtis]

- 4.g.vii During the two-year period prior to the Transaction, there was no union activity by Respondent's personnel.

[Response provided by William F. O'Connor]

- 4.g.viii During the two-year period prior to the Transaction, it was Respondent's business practice to use its own internal (in-house) sales force to sell its services. These personnel contacted customers and potential customers to sell services. Respondent surveyed the types and volumes of waste anticipated to be in the marketplace and purchased lists of manufacturers and other waste generators in various geographical areas. With respect to the waste oil business, the drivers were the typical salesmen who procured customers by word of mouth or distribution of flyers.

[Response provided by George L. Curtis and Scott Day]

4.g.ix During the two-year period prior to the Transaction, it was Respondent's business practice to purchase its machinery and equipment on the open market or to acquire it through acquisitions of other businesses, or, in some cases, to fabricate it itself. Respondent operated and maintained its machinery and equipment in accordance with the respective manufacturers' specifications, procedures, in accordance with the applicable laws, regulations and ordinances, and in accordance with the respective facility's permit or license. Repair and replacement parts were purchased on the open market or fabricated by the Respondent itself. Equipment and machinery no longer needed was decontaminated (or, if part of a permitted facility, was put through "closure" pursuant to the applicable permit) and disposed of through sale or scrapped.

[Response provided by Paul T. Whiting]

4.g.x During the two-year period prior to the Transaction, it was Respondent's business practice to operate its facilities in accordance with applicable federal, state and local laws, regulations and ordinances. Each of Respondent's facilities was licensed or permitted by federal authorities (the U.S. EPA) and/or applicable state authorities, and it was Respondent's specific business practice to operate its facilities in accordance with each facility's permit or license.

[Response provided by Jules B. Selden, Paul T. Whiting and Peter Egan]

4.g.xi During the two-year period prior to the Transaction, Respondent compensated its employees based on the employees' job descriptions, qualifications, and market analyses of the industry. For certain work, compensation was based upon prevailing wage or wage determination, as stipulated in the particular contract for the work. Employees were also eligible for various incentive payments and bonus awards. Respondent offered its employees a comprehensive benefits package which included paid vacation and holidays, health insurance, dental insurance, life insurance, accidental death and dismemberment coverage, short term disability insurance, long term disability insurance, and a 401(k) plan.

[Response provided by William F. O'Connor]

4.g.xii Respondent's business practices with respect to accounting during the two-year period prior to the Transaction were set forth on Pages 26, 27, 36 and 37 of Respondent's "Annual Report Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934" (a/k/a Form 10-K) dated May 1989 and submitted to the Securities and Exchange Commission for Respondent's Fiscal year ending February 28, 1989. Copies of the referenced pages are attached hereto as Exhibit 4.g.xii.

[Response provided by Stephen Moynihan and Jules B. Selden]

4.g.xiii During the two-year period prior to the Transaction, it was Respondent's business practice to invoice its customers during and/or after completion of services. In some cases, the billing cycle depended upon the specific contract with the customer. In some cases where the customer was not creditworthy, or owed the Respondent money for past services, services were rendered on a C.O.D. basis instead of billing the customer after completion of the work.

[Response provided by George L. Curtis]

4.g.xiv During the two-year period prior to the Transaction, it was Respondent's business practice to maintain files on its customers in a variety of locations and formats. There was no one single file for a customer. Some customer files consisted of databases which were proprietary in nature. Hard copy files also existed containing such information as the customer's identification, types of waste generated, waste profiles, and billing information. Customer files regarding specific waste loads generated and disposed of by Respondent were in the form of waste manifests and other shipping documents maintained by each of Respondent's facilities.

[Response provided by George L. Curtis]

4.h.i See the response to Question No. 4.g.i above. Respondent's practices with respect to hiring remained unchanged after the Transaction. The Transaction had no effect on those practices.

[Response provided by William F. O'Connor]

4.h.ii See the response to Question No. 4.g.ii above. Respondent's practices with respect to health and safety remained unchanged after the Transaction. The Transaction had no effect on these practices, and they continue into the present time.

* As time progressed subsequent to the Transaction, Respondent's health and safety policies and procedures changed as new equipment became available, as new innovations were discovered, and as applicable laws and regulations changed. None of the changes were related to the Transaction.

[Response provided by Mark R. Arriens and Jules B. Selden]

4.h.iii See response to Question No. 4.g.iii above. Respondent's practices with respect to education and training programs remained unchanged after the Transaction. The Transaction had no effect on those practices.

[Response provided by William F. O'Connor]

4.h.iv See response to Question No. 4.g.iv above. Respondent's practices with respect to pricing remained unchanged after the Transaction. The Transaction had no effect on these practices, and they continue into the present time. Please note, however, that these practices have been updated over the years as technology has improved (e.g., internet advertising, etc.).

[Response provided by George L. Curtis]

4.h.v See response to Question No. 4.g.v above. Respondent's practices with respect to sales promotion and advertising remained unchanged after the Transaction. The Transaction had no effect on these practices, and they continue into the present time (except radio advertising).

[Response provided by George L. Curtis]

4.h.vi Respondent has always used its own sales forces and its own operating personnel (including subcontractors) to provide services to its customers. It has never used distributors.

[Response provided by George L. Curtis]

4.h.vii During the two-year period after the Transaction, there was no union activity by Respondent's personnel.

[Response provided by William F. O'Connor]

4.h.viii See the response to Question No. 4.g.viii above. Respondent's business practices relative to its sales force remained unchanged after the Transaction. The Transaction had no effect on these practices.

[Response provided by George L. Curtis and Scott Day]

4.h.ix See the response to Question No. 4.g.ix above. Respondent's business practices relative to machinery and equipment remained unchanged after the Transaction. The Transaction had no effect on these practices.

[Response provided by Paul T. Whiting]

4.h.x See the response to Question No. 4.g.x above. Respondent's business practices relative to its operating facilities remained unchanged after the Transaction. The Transaction had no effect on these practices.

[Response provided by Jules B. Selden, Paul T. Whiting and Peter Egan]

4.h.xi See the response to Question 4.g.xi above. Respondent's practices relative to compensation and benefit programs remained unchanged after the Transaction. The Transaction had no effect on these practices.

[Response provided by William F. O'Connor]

4.h.xii See the response to Question 4.g.xii above. Respondent's practices relative to accounting remained unchanged after the Transaction. The Transaction had no effect on these practices. Respondent's Forms 10-K for the years subsequent to 1989 repeated these policies in the form and language set forth in Exhibit 4.g.xii.

[Response provided by Stephen Moynihan and Jules B. Selden]

- 4.h.xiii See the response to Question No. 4.g.xiii above.
Respondent's practices relative to billing remained unchanged after the Transaction. The Transaction had no effect on these practices.

[Response provided by George L. Curtis]

- 4.h.xiv See the response to Question No. 4.g.xiv above.
Respondent's practices relative to customer files remained unchanged after the Transaction. The Transaction had no effect on these practices.

[Response provided by George L. Curtis]

4.i

Respondent's corporate health and safety manual
Respondent's general pricing rules
Respondent's sales brochures
Respondent's salesmen's handbook
Respondent's customer databases
Respondent's journal pricing rules
Various hazardous waste manifests
Respondent's "Annual Report Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934" (a/k/a Form 10-K)
Facility permits and licenses
Respondent's general corporate files
Respondent's general corporate practices
Respondent's corporate policies and procedures manual

[Response provided by individuals responding to other questions herein]

- 4.j Prior to the Transaction (except for the approximately 17-month inactive period immediately preceding the Transaction), Murphy's Waste Oil Service, Inc. was engaged in the business of collecting, recycling and resale of waste oil. Clean Harbors engaged in the same business prior to the Transaction, and continued to engage in the same business after the Transaction.

[Response provided by Jules B. Selden and Scott Day]

- 4.k See responses to Questions 4.d and 4.j above.

- 4.l It was respondent's general practice to announce acquisitions. However, having used due diligence and inquiries, Respondent is unable to identify any documentation or other record of any specific announcement or publicization having been made. The acquisition was

addressed in Respondent's subsequent filings with the Securities and Exchange Commission (Forms 10-K), and in its annual report to its shareholders.

Note: Clean Harbors' sales personnel and other employees advised customers and potential customers of Respondent's expanded capabilities.

[Response provided by Jules B. Selden and C. Michael Malm (and George L. Curtis, and Scott Day for the Note)]

- 4.m At the time of the Transaction, Murphy's Waste Oil Service, Inc. was inactive and had no customers. After the Transaction, Respondent, both in the name of Clean Harbors and Murphy's Waste Oil Service, Inc. sought to expand its customer base and solicited customers in the geographic area where Murphy's Waste Oil Service, Inc. had conducted business prior to becoming inactive approximately 17 months before the Transaction. Some of Clean Harbors' and Murphy's Waste Oil Service, Inc.'s new customers were former customers of the pre-Transaction Murphy's Waste Oil Service, Inc. Some of these remain Clean Harbors' and Murphy's customers today.

Respondent recollects that, some time after the Transaction, a former (pre-Transaction) officer of Murphy's Waste Oil Service, Inc. prepared a list of former customers (i.e., customers which the Company serviced prior to its period of inactivity) and gave it to Respondent. That list no longer exists.

[Response provided by Scott Day and Mark Sullivan]

- 4.n At the time of the Transaction, Murphy's Waste Oil Service, Inc. was inactive and, to Respondent's knowledge, had no suppliers or vendors. After the Transaction, Respondent used its own suppliers and vendors (i.e., those which Clean Harbors had used in its own business prior to the Transaction) or engaged new ones as time went on. If any of Respondent's suppliers and vendors after the Transaction were those which may have been used by Murphy's Waste Oil Service, Inc. prior to the Transaction, such was purely coincidental.

[Response provided by Scott Day and Mark Sullivan]

- 4.o The debts, obligations and other liabilities assumed or otherwise acquired by Clean Harbors in the Transaction are detailed in the Stock Purchase Agreement referenced in the response to Question 4.a above, a copy of which has been provided in response to Question 4.b above as Exhibit 4.b.

[Response provided by Jules B. Selden]

- 4.p Murphy's Waste Oil Service, Inc. did not cease operations, liquidate or dissolve in connection with the Transaction. It should be noted, however, that during the approximately 17-month period prior to the Transaction, Murphy's Waste Oil Service, Inc. was inactive due to the illness of its President.

[Response provided by Jules B. Selden]

- 4.q Not applicable.

- 4.r After the date of the Transaction, Clean Harbors continued to use the name "Murphy's Waste Oil Service, Inc." as one of its wholly-owned subsidiaries, and that use continues to the present time.

[Response provided by Jules B. Selden]

- 4.s As agreed to during a telephone conversation on November 17, 1999 between Respondent's counsel, Jules B. Selden, and EPA's counsel, Cynthia A. Lewis, the response to this question need only address the corporate entity which purchased Murphy's Waste Oil Service, Inc. (Clean Harbors of Kingston, Inc.) and its parent corporation (Clean Harbors, Inc.).

Prior to the transaction, six (6) individuals held positions as officers of Clean Harbors, Inc., and five (5) individuals held positions as officers of Clean Harbors of Kingston, Inc. All of the officers of Clean Harbors of Kingston, Inc. were also officers of Clean Harbors, Inc.

[Response provided by Jules B. Selden]

- 4.t As agreed to during a telephone conversation on November 17, 1999 between Respondent's counsel, Jules B. Selden, and EPA's counsel, Cynthia A. Lewis, the response to this question need only address the corporate entity which purchased Murphy's Waste Oil Service, Inc. (Clean Harbors of Kingston, Inc.), its parent corporation (Clean Harbors, Inc.) and post-Transaction Murphy's Waste Oil Service, Inc.

After the Transaction, six (6) individuals held positions as officers of Clean Harbors, Inc. and five (5) individuals held positions as officers of Clean Harbors of Kingston, Inc. All of the officers of Clean Harbors of

Kingston, Inc. were also officers of Clean Harbors, Inc. The same individuals held the same officer positions in both corporations prior to and after the Transaction.

After the Transaction, three (3) individuals held positions as officers of Murphy's Waste Oil Service, Inc. These individuals, who took office upon the Transaction, were also officers (both prior to and after the Transaction) of Clean Harbors, Inc. and Clean Harbors of Kingston, Inc.

[Response provided by Jules B. Selden]

- 4.u No Clean Harbors, Inc. officers (and no officers of its subsidiary corporations) after the Transaction were formerly (pre-Transaction) officers, directors, shareholders or employees of Murphy's Waste Oil Service, Inc.

[Response provided by Jules B. Selden]

- 4.v As agreed to during a telephone conversation on November 17, 1999 between Respondent's counsel, Jules B. Selden, and EPA's counsel, Cynthia A. Lewis, the response to this question need only address the corporate entity which purchased Murphy's Waste Oil Service, Inc. (Clean Harbors of Kingston, Inc.) and its parent corporation (Clean Harbors, Inc.).

Prior to the transaction, six (6) individuals held positions as directors of Clean Harbors, Inc., and one (1) individual held the position as sole director of Clean Harbors of Kingston, Inc. The sole director of Clean Harbors of Kingston, Inc. was also a director of Clean Harbors, Inc.

[Response provided by Jules B. Selden]

- 4.w As agreed to during a telephone conversation on November 17, 1999 between Respondent's counsel, Jules B. Selden, and EPA's counsel, Cynthia A. Lewis, the response to this question need only address the corporate entity which purchased Murphy's Waste Oil Service, Inc. (Clean Harbors of Kingston, Inc.), its parent corporation (Clean Harbors, Inc.) and post-Transaction Murphy's Waste Oil Service, Inc.

After the Transaction, six (6) individuals held positions as directors of Clean Harbors, Inc., and one (1) individual held the position as sole director of Clean Harbors of Kingston, Inc. The sole director of Clean Harbors of Kingston, Inc. was also a director of Clean Harbors, Inc. The same individuals held the same director positions in both corporations prior to and after the Transaction.

After the Transaction, one (1) individual held the position as sole director of Murphy's Waste Oil Service, Inc. This individual, whose directorship commenced upon the Transaction, was also a director (both prior to and after the Transaction) of Clean Harbors, Inc. and Clean Harbors of Kingston, Inc.

[Response provided by Jules B. Selden]

- 4.x No Clean Harbors, Inc. directors (and no directors of its subsidiary corporations) after the Transaction were formerly (pre-Transaction) officers, directors, shareholders or employees of Murphy's Waste Oil Service, Inc.

[Response provided by Jules B. Selden]

- 4.y Clean Harbors, Inc. is a publicly traded corporation whose shares are traded on the NASDAQ National Market System. Because many of the shares are held in street name (i.e., they are listed to a brokerage house which may be holding them for numerous clients), it is impossible to state the exact number of Respondent's shareholders before the Transaction. However, the Respondent's annual report to its shareholders for its fiscal year ending February 28, 1989 indicated that there were 7,830,000 shares of common stock issued.

[Responded to by Jules B. Selden]

- 4.z Clean Harbors, Inc. is a publicly traded corporation whose shares are traded on the NASDAQ National Market System. Because many of the shares are held in street name (i.e., they are listed to a brokerage house which may be holding them for numerous clients), it is impossible to state the exact number of Respondent's shareholders after the the Transaction. However, the Respondent's annual report to its shareholders for its fiscal year ending February 28, 1989 indicated that there were 7,830,000 shares of common stock issued.

[Responded to by Jules B. Selden]

- 4.aa As stated in the responses to Question Nos. 4.y and 4.z above, Respondent is a publicly traded corporation. It is impossible to tell if any of Respondent's shareholders immediately after the Transaction were former Murphy's Waste Oil Service, Inc.'s employees. As stated elsewhere in these Responses, at the time of the Transaction, there were no Murphy's Waste Oil Service, Inc. employees. If any former employees of Murphy's (i.e., employees who once

worked for Murphy's and departed years prior to the Transaction) owned Clean Harbors' stock after the Transaction, it was, in all probability, purchased by them privately on the open market for their own personal purposes.

The Transaction did not involve the purchase or awarding of Clean Harbors stock.

George P. Luker, Esq., attorney for Joan E. Murphy, has stated upon information and belief that both prior to and after the Transaction, Joan E. Murphy and her late husband, John F. Murphy, the sole stockholders, officers and directors of Murphy's Waste Oil Service, Inc. prior to the Transaction, owned common stock of Clean Harbors, Inc. This stock was purchased for their own personal investment purposes on the open market, and had no relation whatsoever with the Transaction.

[Response provided by Jules B. Selden]

- 4.ab Respondent has no records which indicate the number of its employees before the Transaction. However, Respondent's "Annual Report Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934" (a/k/a Form 10-K) dated May 1989 and submitted to the Securities and Exchange Commission for Respondent's Fiscal year ending February 28, 1989 states that "[A]s of May 15, 1989, the Company employed 1,240 people on a full-time basis."

[Responded to by Jules B. Selden and William F. O'Connor]

- 4.ac Respondent has no records which indicate the number of its employees after the Transaction. As stated above in the response to Question No. 4.ab, Respondent's "Annual Report Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934" (a/k/a Form 10-K) dated May 1989 and submitted to the Securities and Exchange Commission for Respondent's Fiscal year ending February 28, 1989 states that "[A]s of May 15, 1989, the Company employed 1,240 people on a full-time basis."

As stated in the response to Question No. 4.ad below, for approximately 17 months prior to and at the time of the Transaction, Murphy's Waste Oil Service, Inc. had no employees, and Clean Harbors gained no former Murphy's Waste Oil Service, Inc. employees through the Transaction. Therefore, there would have been no difference in the number of Clean Harbors employees immediately before the Transaction and immediately after the Transaction.

[Responded to by Jules B. Selden and William F. O'Connor]

- 4.ad No Clean Harbors employees immediately after the Transaction were formerly officers, directors, shareholders or employees of Murphy's Waste Oil Service, Inc. For approximately 17 months prior to and at the time of the Transaction, Murphy's Waste Oil Service, Inc. had no employees, and Clean Harbors gained no former Murphy's Waste Oil Service, Inc. employees through the Transaction.

Three years after the Transaction, an individual who had once been an employee of Murphy's Waste Oil Service, Inc. (but had left its employ 17 months prior to the Transaction), was employed by Clean Harbors.

Two years and three months after the Transaction, an individual who was a former (pre-Transaction) officer, director and shareholder of Murphy's Waste Oil Service, Inc. was employed by Clean Harbors in a part time clerical position.

[Response provided by Jules B. Selden, Scott Day and William F. O'Connor]

- 4.ae Clean Harbors does not maintain records from which it can count the number of management and supervisory personnel before the Transaction. However, see the response to Question No. 4.ag below.

[Response provided by William F. O'Connor]

- 4.af Clean Harbors does not maintain records from which it can count the number of management and supervisory personnel after the Transaction. However, see Response No. 4.ag below.

[Response provided by William F. O'Connor]

- 4.ag No management and supervisory personnel employed by Clean Harbors after the Transaction were formerly management or supervisory personnel of Murphy's Waste Oil Service, Inc. For approximately 17 months prior to and at the time of the Transaction, Murphy's Waste Oil Service, Inc. had no employees, and Clean Harbors gained no former Murphy's Waste Oil Service, Inc. employees through the Transaction.

[Response provided by Jules B. Selden]

- 4.ah After the Transaction, Clean Harbors did not continue to use the same bank, savings and loan or other financial

institution with which Murphy's Waste Oil Service, Inc. did business prior to the Transaction.

[Response provided by C. Michael Malm]

- 4.ai After the Transaction, Clean Harbors did not continue to use the same insurance, surety, bonding or similar companies which covered the business of Murphy's Waste Oil Service, Inc. prior to the Transaction.

[Response provided by William F. O'Connor]

- 5.a At present, Respondent has 1,322 employees. All of Respondent's employees are employed by Clean Harbors Environmental Services, Inc. (See the last paragraph of the response to Question No. 1.a above.)

[Response provided by William F. O'Connor]

- 5.b Respondent has no records from which it can ascertain the number of its employees from the time the business started in 1979 until it became a publically traded corporation in November 1987. A review of Respondent's Annual Reports filed with the Securities and Exchange Commission (Form 10-K) indicated that Respondent reported having the following number of employees on the following dates during the period being investigated:

702 as of May 1, 1988
1,240 as of May 15, 1989
1,198 as of May 15, 1990
1,100 as of June 3, 1991
1,175 as of March 31, 1992
1,400 as of February 19, 1993
1,500 as of February 1, 1994
1,473 as of January 31, 1995

[Response provided by William F. O'Connor and Jules B. Selden]

- 5.c See Exhibit 5.c attached hereto.

[Response provided by c. Michael Malm]

- 5.d. All of the financial information requested by Question Nos. 5.d.i through 5.d.x is contained in the Respondent's Annual Report filed with the Securities and Exchange Commission (Form 10-K). Respondent's Forms 10-K for 1994, 1995, 1996, 1997 and 1998 are attached hereto as Exhibit 5.d.

[Response provided by Carl Paschetag, Jr.]

5.e There was no Question No. 5.e.

5.f See the response to Question No. 1.a above and Exhibits 5.c and 5.f attached hereto.

Notes:

- o The Corporate address of Respondent and all of its subsidiary corporations is 1501 Washington Street, Braintree, MA 02185-9048.
- o In foreign jurisdictions (where some subsidiary corporations are registered to do business, the Respondent's agent for service of process is CT Corporation.
- o Clean Harbors, Inc. owns 100% of the stock of each of its subsidiary corporations.
- o Prior to the Transaction (i.e., from January 12, 1972 to February 8, 1989), 100% of the stock of Murphy's Waste Oil Service, Inc. was owned by John F. Murphy (90%) and Joan E. Murphy (10%).
- o The names of current shareholders owning more than 5% of the Respondent's stock are listed on Page 6 of the most recent Notice of Annual Meeting of Stockholders and Proxy Statement, dated May 1, 1999, a copy of which is attached hereto as Exhibit 5.f.vi.
- o The only lists of officers and directors during the period being investigated which could be located are attached hereto as Exhibit 5.f.vii.

[Response provided by Jules B. Selden]

5.g Not applicable. The history of Respondent's subsidiary corporations is set forth in Exhibit 5.c attached hereto.

5.h See Exhibit 5.c attached hereto.

5.i Not applicable.

5.j See Exhibit 5.c attached hereto.

- 5.k Neither the Respondent nor any of its subsidiaries has ever filed for bankruptcy.

[Response provided by Jules B. Selden]

- 6.a Not applicable.

- 6.b Not applicable.

- 6.c Not applicable.

- 7.a Christopher Moran *
Facility Supervisor (Woburn, MA)
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Paul Mello *
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Jay Nolan *
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Edward Donovan *
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John Murray *
Central T&D Manager
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Kent Bongarzone *
Transportation Compliance Manager
Clean Harbors Environmental Services, Inc.

1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Roland Babin *
Facility General Manager, Clean Harbors of Connecticut
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Christopher M. Beyus *
Market Segment Manager
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Frederick Cogan *
Driver
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

W. David Cyr, Plant Manager
Bridgeport CT Facility of United Oil Recovery, Inc.
(was former Transportation Manager at CTC/Clean Harbors of
Connecticut, Inc. Facility)

Joan E. Murphy (contacted through her attorney)
(pre-Transaction officer/director/shareholder of Murphy's
Waste Oil Service, Inc.)
16 Harriet Avenue
Burlington, MA 01803

George P. Luker, Esquire (attorney for Joan E. Murphy)
31 Main Street
Maynard, MA 01754
(978) 897-9589
(978) 987-4629

* Any contact with this individual should be initiated
through the individual listed in the response to Question No.
1.c above.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
1 CONGRESS ST., SUITE 1100
BOSTON, MA 02114-2023

URGENT LEGAL MATTER -- PROMPT REPLY NECESSARY
CERTIFIED MAIL: RETURN RECEIPT REQUESTED

December 7, 2004

Mr. George P. Luker, Esq.
31 Main St.
Maynard, MA 01754-2505

Re: Request for Information Pursuant to Section 104 of CERCLA in relation to the Murphy Waste Oil Service, Inc. at the Wells G & H Superfund Site in Woburn, Massachusetts, hereinafter referred to as the "Site".

Dear Mr. Luker:

The United States Environmental Protection Agency (EPA) is investigating the release or threatened release of hazardous substances, pollutants, and contaminants at the Site. This investigation includes an inquiry into the identification, nature, source, and quantity of materials transported to or generated, treated, stored, or disposed of at the Site. EPA is seeking information to identify parties responsible for the contamination and cleanup of the Site. It is my understanding that you represent Joan E. Murphy, a former officer, director and shareholder of Murphy's Waste Oil Service, Inc. which is located at 252 Salem St Woburn MA. Ms. Murphy is also a trustee (or co-trustee) of Old Oil Realty Trust, which is a current owner of the land occupied by Murphy's Waste Oil Service, Inc.

Pursuant to the authority of Section 104(e) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. § 9604(e), you are hereby requested to respond to the Information Request set forth in the Enclosure to this letter.

While EPA seeks your voluntary cooperation in this investigation, compliance with the Information Request is required by law. Failure to provide a complete truthful response to this Information Request within **thirty (30)** days of your receipt of this letter, or to adequately justify such failure to respond, may subject you to an enforcement action by EPA pursuant to Section 104(e) of CERCLA. This provision permits EPA to seek the imposition of penalties of up to thirty-two thousand five hundred dollars (\$32,500) for each day of non-compliance.

Please note that responses which are incomplete, ambiguous, or evasive will be treated as complete non-compliance with this Information Request. Also be further advised that provision of false, fictitious, or fraudulent statements or representations may subject you to criminal

penalties under 18 U.S.C. § 1001.

This Information Request is not subject to the approval requirements of the Paperwork Reduction Act of 1980, 44 U.S.C. § 3501 et seq.

Your response to this Information Request should be mailed to:

U.S. Environmental Protection Agency
Martha Bosworth, Enforcement Coordinator
Office of Site Remediation & Restoration
1 Congress Street, Suite 1100 (HBS)
Boston, MA 02114-2023

If you have general questions concerning the Site or this Information Request, please contact Mr. Joseph LeMay at (617) 918-1323. If you have any legal questions, please contact Mary Jane O'Donnell, Enforcement Counsel, U.S. Environmental Protection Agency, Region 1 Office of Environmental Stewardship, 1 Congress Street (SES), Boston, MA 02114-2023, or at (617) 918-1371.

Due to the seriousness of the problem at the Site and the legal ramifications of your failure to respond properly, EPA strongly encourages you to give this matter your immediate attention and to respond to this Information Request within the time specified above.

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in cursive script that reads "Bruce Marshall".

Bruce Marshall, Chief
Search and Cost Recovery Section, Technical & Support Branch
Office of Site Remediation & Restoration

Enclosures

cc. Mary Jane O'Donnell, EPA Office of Environmental Stewardship
Joseph LeMay, EPA Remedial Project Manager
Martha Bosworth, EPA Enforcement Coordinator

INFORMATION REQUEST FOR
WELL G & H

* **Period Being Investigated: 1977 to present** *

*

*

In addition to the questions which follow, this enclosure includes a declaration, a site description, detailed instructions for responding to this request, and definitions of words such as "Respondent," "identify," "waste," and "asset" used in the questions. These materials appear at the end of the questions; please refer to them in answering all questions. Of particular importance:

- Answer each question with respect to the period being investigated noted above unless the question indicates otherwise.
- Answer all questions completely in accordance with the definitions and instructions.
- Complete the enclosed declaration.
- For each question, identify all persons and documents relied upon in the preparation of the answer.
- All information provided for which you are making a claim of business confidentiality or which contains personal privacy information should be contained on separate sheets and *clearly marked as confidential or private*.
- This request imposes a continuing obligation upon you to submit responsive information discovered after your original response is submitted to EPA.

INFORMATION REQUEST QUESTIONS

1. General Information About Respondent

NOTE: All questions in this section refer to the present time unless otherwise indicated.

- a. Provide the full legal name and mailing address of the Respondent.
- b. For each person answering these questions on behalf of Respondent, provide:
 - i. full name;
 - ii. title;
 - iii. business address;
 - iv. business telephone number and FAX machine number.
- c. If Respondent wishes to designate an individual for all future correspondence concerning this Site, including any legal notices, please so indicate here by providing that individual's name, address, telephone number, and FAX number.

2. Respondent's Legal Status

NOTE: All questions in this section refer to the present time unless otherwise indicated.

- a. As a trustee of Old Oil Realty Trust, provide:
 - i. the names and addresses of all current trustees;
 - ii. the names and addresses of all current beneficiaries;
 - iii. the names of all trustees during the period being investigated;
 - iv. the names of all beneficiaries during the period being investigated; and
 - v. a copy of the document which sets out the purpose of the trust and the duties and powers of the trustees (e.g. the declaration of trust or trust agreement).

3. Operations

- a. Provide copies of all documents of operations, including but not limited to:
 - i. documents concerning the nature and volume of waste oil brought to Murphy's Waste Oil Service, Inc.;
 - ii. documents concerning the dates that waste oil was brought to Murphy's Waste Oil Service, Inc.;

- iii. documents concerning where waste oil was placed or disposed of at Murphy's Waste Oil Service, Inc.;
- iv. documents concerning the entities and individuals who brought waste oil to Murphy's Waste Oil Service, Inc. and;
- v. documents concerning the amounts charged for waste oil brought to Murphy's Waste Oil Service, Inc.

b. Provide copies of all documents concerning sampling, testing or other technical or analytical information concerning the surface water, groundwater, soils, sediments, and/or air at and adjacent to the Site.

4. Information About Others

a. If you have information concerning the operation of the Site or the source, content or quantity of materials placed/disposed at the Site which is not included in the information you have already provided, provide all such information. Note that Murphy's Waste Oil Service, Inc. has responded to a prior EPA request for information. Their response is dated February 9, 1988. The Respondent is requested to supplement the February 9, 1988 response particularly the customer list.

b. If not already included in your response, if you have reason to believe that there may be persons, including persons currently or formerly employed by Respondent, who are able to provide a more detailed or complete response to any of these questions or who may be able to provide additional responsive documents, identify such persons and the additional information or documents that they may have.

c. If not already provided, identify all persons, including Respondent's current and former employees, who have knowledge or information about the generation, use, purchase, treatment, storage, disposal, placement or other handling of materials at, or transportation of materials to, the Site.

5. Compliance with This Request

a. Describe all sources reviewed or consulted in responding to this request, including but not limited to:

- i. the names of all individuals consulted;
- ii. the current job title and job description of each individual consulted;
- iii. the job title and job description during the period being investigated of each individual consulted;
- iv. whether each individual consulted is a current or past employee of Respondent;
- v. the names of all divisions or offices of Respondent for which records were reviewed;
- vi. the nature of all documents reviewed; and
- vii. the locations where those documents reviewed were kept prior to review; and

viii. the location where those documents reviewed are currently kept.

The following form of declaration must accompany all information submitted by Respondent in response to the Information Request:

DECLARATION

I declare under penalty of perjury that I am authorized to respond on behalf of

_____ and that the foregoing is complete, true, and correct.
Respondent

Executed on _____, 20__

Signature

Type Name

Title [if any]

INFORMATION REQUEST INSTRUCTIONS

1. Answer Every Question Completely. You are required to provide a separate answer to each and every question and subpart of a question set forth in this Information Request. Incomplete, evasive, or ambiguous answers shall constitute failure to respond to this Information Request and may subject you to the penalties set out in the cover letter.
2. Number Each Answer. Number each answer with the number of the question to which it corresponds.
3. Provide Information about the Period Being Investigated. You are required to answer each question with respect to the period being investigated, unless the question specifically states otherwise. If the response fails to address the period being investigated, EPA will consider this a failure to comply with the request and may take action against you for this noncompliance.
4. Provide the Best Information Available. You must provide responses to the best of Respondent's ability, even if the information sought was never put down in writing or if the written documents are no longer available. You should seek out responsive information from current and former employees/agents. Submission of cursory responses when other responsive information is available to the Respondent will be considered non-compliance with this Information Request.
5. Identify Sources of Answer. For each question, identify (see Definitions) all the persons and documents that you relied on in producing your answer.
6. Submit Documents with Labels Keyed to Question. For each document produced in response to this Information Request, indicate on the document (or in some other reasonable manner) the number of the question to which it responds.
7. Continuing Obligation to Provide/Correct Information. If additional information or documents responsive to this Request become known or available to you after you respond to this Request, EPA hereby requests pursuant to CERCLA Section 104(e) that you supplement your response to EPA. Failure to supplement your response within 30 days of discovering such responsive information may subject you to \$32,500 per day penalties. If at any time after the submission of this response, you discover or believe that any portion of the submitted information is false or misrepresents the truth, you must notify EPA of this fact as soon as possible and provide EPA with a corrected response. If any part of the response to this Information Request is found to be false, the signatory to the response and the company may be subject to criminal prosecution.
8. Complete the Enclosed Declaration. You are required to complete the enclosed declaration which certifies that the information you are providing in response to this Information Request is true, accurate, and complete.

9. Confidential Information. The information requested herein must be provided even though you may contend that it includes confidential information or trade secrets. You may assert a confidentiality claim covering part or all of the information requested, pursuant to Sections 104(e)(7)(E) and (F) of CERCLA, 42 U.S.C. §§ 9604(e)(7)(E) and (F), and 40 C.F.R. § 2.203(b). All information claimed to be confidential should be contained on separate sheet(s) and should be clearly identified as "trade secret" or "proprietary" or "company confidential." Personal financial information, including individual tax returns, may also be claimed as confidential. In addition, please note that you bear the burden of substantiating your confidentiality claim. Your claim of confidentiality should be supported by the submission of information supporting such a claim; the type of information to be submitted is set out in 40 C.F.R. Part 2. Information covered by a claim of confidentiality will be disclosed by EPA only to the extent, and only by means of the procedures, provided in 40 C.F.R. §§ 2.201-2.311. **If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice to you.** You should read the above cited regulations carefully before asserting a business confidentiality claim, since certain categories of information are not properly the subject of such a claim.

10. Disclosure to EPA Contractor. Information which you submit in response to this Information Request may be disclosed by EPA to authorized representatives of the United States, even if you assert that all or part of it is confidential business information. Please be advised that EPA intends to disclose all responses to this Information Request to one or more of its private contractors listed in the attached EPA Contractor List for the purpose of organizing and/or analyzing the information contained in the responses to this Information Request. If you are submitting information which you assert is entitled to treatment as confidential business information, you may comment on this intended disclosure within fourteen (14) days of receiving this Information Request.

11. Personal Privacy Information. Personnel and medical files, and similar files the disclosure of which to the general public may constitute an invasion of privacy should be segregated from your responses, included on separate sheet(s), and marked as "Personal Privacy Information." You should note however, that unless prohibited by law, EPA may disclose this information to the general public without further notice to you. (Please see Instruction 9 for information concerning treatment of individual tax returns.)

12. Objections to Questions. While the Respondent may indicate that it objects to certain questions in this Information Request, it must provide responsive information notwithstanding those objections. To object without providing responsive information may subject Respondent to the penalties set out in the cover letter.

13. Claims of Privilege. If you claim that any document responsive to this Information Request is a communication for which you assert that a privilege exists for the entire document, identify (see Definitions) the document and provide the basis for asserting the privilege. For any document for which you assert that a privilege exists for a portion of it, provide the portion of the document for which you are not asserting a privilege, identify the portion of the document for which you are asserting the privilege, and provide the basis for such an assertion. Please note that regardless of the assertion of any privilege, any facts contained in the document which are responsive to the Information Request must be disclosed in your response.

EPA CONTRACTOR LIST

Updated January 13, 2004

CONTRACTOR

CONTRACT NUMBER

Arctic Slope Regional Corp.(ASRC) Aerospace

Effective: 9/5/02

Effective: 10/19/02

Contract No.: 68-R1-02-01

Task Order No. 003

Booz, Allen & Hamilton

Effective: 10/01/00

Effective: 12/30/98

Effective: 10/9/02

EPA IAG No. DW47940243-01-0

GSA ANSWER Contract No.: GS09K99BHD0002

Task Order No. R1-HM-68000305

Joint Venture of Planners Collaborative, Inc.
and Resource Application, Inc.

Effective: 07/30/01

Contract No.: 68-R1-01-01

Techlaw, Inc.

Effective: July 12, 1999

GSA Contract No.: GS-10F-0168J

James Kerr and Associates, LLC

Effective 9/04/2003

INFORMATION REQUEST DEFINITIONS

All terms not defined herein shall have their ordinary meaning, unless such terms are defined in CERCLA, 42 U.S.C. Section 9601 et seq., RCRA, 42 U.S.C. Section 6901 et seq., or Volume 40 of the Code of Federal Regulations (CFR), in which case such statutory or regulatory definitions shall apply.

The following definitions shall apply to the following words as they appear in this Enclosure:

1. The term "you" or "Respondent" shall mean Joan E. Murphy in her capacity as a former officer, director and shareholder of Murphy's Waste Oil Service, Inc and in her capacity as a trustee (or co-trustee) of Old Oil Realty Trust, which is a current owner of the land occupied by Murphy's Waste Oil Service, Inc.

2. The terms "document" and "documents" shall mean any method of recording, storing, or transmitting information. "Document" shall include but not be limited to:

(a) writings of any kind, formal or informal, whether or not wholly or partially in handwriting, including (by way of illustration and not by way of limitation) any of the following:

1. invoice, receipt, endorsement, check, bank draft, cancelled check, deposit slip, withdrawal slip, order;
2. letter, correspondence, fax, telegram, telex, Email;
3. minutes, memorandum of meetings and telephone and other conversations, telephone messages;
4. agreement, contract, and the like;
5. log book, diary, calendar, desk pad, journal;
6. bulletin, circular, form, pamphlet, statement;
7. report, notice, analysis, notebook;
8. graph or chart; or
9. copy of any document.

(b) microfilm or other film record, photograph, or sound recording on any type of device;

(c) any tape, disc, or other type of memory generally associated with computers and data processing, together with:

1. the programming instructions and other written material necessary to use such punch card, disc, or disc pack, tape or other type of memory; and
2. printouts of such punch card, disc, or disc pack, tape or other type of memory; and

- (d) attachments to or enclosures with any document as well as any document referred to in any other document.

3. The term "identify" or "provide the identity of" means, with respect to a natural person, to set forth: (a) the person's full name, (b) present or last known business and home addresses and telephone numbers; (c) present or last known employer (include full name and address) with job title, position or business; and (d) the person's social security number.

4. The term "identify" or "provide the identity of" means, with respect to a corporation, partnership, business trust, government office or division, or other entity (including a sole proprietorship), to set forth: (a) its full name; (b) complete street address; (c) legal form (e.g. corporation, partnership, etc.); (d) the state under whose laws the entity was organized; and (e) a brief description of its business.

5. The term "identify" or "provide the identity of" means, with respect to a document, to provide: (a) its customary business description (e.g., letter, invoice); (b) its date; (c) its number if any (e.g., invoice or purchase order number); (d) the identity of the author, addressor, addressee and/or recipient; (e) and a summary of the substance or the subject matter. Alternatively, Respondent may provide a copy of the document.

6. The term "material" or "materials" shall mean any and all objects, goods, substances, or matter of any kind, including but not limited to wastes.

7. The terms "the period being investigated" and "the relevant time period" shall mean the period being investigated as specified on the first page of the Information Request Questions.

8. The terms "the Site" or "the facility" shall mean and include the property on or about the land in Woburn, Massachusetts currently identified by EPA as the Wells G & H Superfund Site, which is more fully described in the enclosed Site Description.

9. The term "waste" or "wastes" shall mean and include trash, garbage, refuse, by-products, solid waste, hazardous waste, hazardous substances, and pollutants or contaminants, whether solid, liquid, or sludge, including but not limited to containers for temporary or permanent holding of such wastes.

10. The term "asset" shall mean and include but not be limited to the following: cash, commodities, personal property, collectibles, real estate, equipment, vehicles, furniture, inventory, supplies, customer lists, accounts receivable, interest in insurance policies, interests in partnerships, corporations, and unincorporated companies, whether foreign or domestic, securities, patents, stocks, bonds, and other tangible as well as intangible property.

11. The term "real estate" shall mean and include, but not be limited to the following: land, buildings, a house, dwelling place, condominium, cooperative apartment, office or commercial building, including those located outside the United States.

SITE DESCRIPTION

Wells G & H were two municipal wells developed in 1964 and 1967 to supplement the water supply of the City of Woburn. The wells supplied 30 percent of the city's drinking water. The population of the city of Woburn is approximately 36,000 people.

In 1979, city police discovered several 55-gallon drums of industrial waste abandoned on a vacant lot in the vicinity of the site; these drums subsequently were removed. As a result of this finding, the nearby wells were tested and found to be contaminated. Both of these wells were shut down in 1979. Five separate properties were found to be the contributing sources of contamination to the aquifer that supplied the water to the two municipal wells. The Wells G & H site covers a total area of 330 acres which encompass commercial and industrial parks, recreational and residential areas in East Woburn. The site is bounded by Route 128 to the north, Route 93 to the east, the Boston and Maine Railroad to the west, and Salem Street and Cedar Street to the south. The area surrounding the site is predominantly residential. The Aberjona River flows through the middle of the site. Primary contaminants include volatile organic compounds including trichloroethylene (TCE) and tetrachloroethylene (PCE), polycyclic aromatic hydrocarbons (PAHs) and heavy metals.

The Murphy's Waste Oil Service Inc. facility is located at 252 Salem Street, Woburn, Massachusetts, within the boundaries of the Wells G&H Superfund Site. During the period being investigated, Murphy's Waste Oil Service Inc. operated an oil storage and recycling facility.

END OF THE INFORMATION REQUEST

THANK YOU FOR YOUR ASSISTANCE IN THIS MATTER

GEORGE P. LUKER
ATTORNEY AT LAW
31 Main Street
Maynard, MA 01754
(978) 897-9589
FAX (978) 897-4629

April 13, 2005

United States Environmental Protection Agency
Martha Bosworth, Enforcement Coordinator
Office of Site Remediation & Restoration
1 Congress Street, Suite 1100 (HBS)
Boston, MA 02114-2023

Dear Ms. Bosworth:

As I advised Susan Scott from your office recently by phone, I have been out of the office for over a week due to a family health issue, and otherwise apologize for the delay in responding to your inquiry concerning Murphy's Waste Oil site at 252 Rear Salem Street, Woburn, MA.

I respond on behalf of Joan E. Murphy, prior clerk of Murphy's Waste Oil Service, Inc. She is also Trustee and Beneficiary of Old Oil Realty Trust. She sold the Corporation to Clean Harbors.

I understand from our conversation that you are making particular inquiry into the question of the available records related to the Beede Waste Oil Super Fund site. I am advised that to the best of my client's knowledge, Murphy's Waste Oil Service, Inc. has never had any dealings with the operation at Beede's Waste Oil Super Fund site. A proprietorship known as Murphy's Waste Oil did have some limited business in the 1970's. It was owned by the late John Murphy who died in 1994. My client states that she has no records of the business involving this proprietorship or any business related to the Beede site.

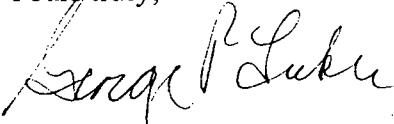
United States Environmental Protection Agency
Ms. Martha Bosworth, Enforcement Coordinator
April 13, 2005

Page 2.

Mrs. Murphy's participation after her husband's death in 1994 lasted, at the most, a few months, was minimal and was unrelated in any way, directly or indirectly, to the Beede site. In reviewing the prior response by Clean Harbors to your office, there were several responses that were then made through Clean Harbors from my office concerning the nature and extent of knowledge of Mrs. Murphy and/or Murphy's Waste Oil Service, Inc. I recently reviewed these with my client and she reconfirms the statements made on Pages 5, 6, 11, 13, 14, 20, 21, 22, 24 and 25. I am enclosing herewith copies of the said response of Clean Harbors dated December 27, 1999.

I hope this is fully responsive to your inquiries.

Yours truly,



George P. Luker
Attorney at Law

GPL:emc
encl.

cc: Ms. Susan Scott
Office of Site Remediation & Restoration



United States Environmental Protection Agency

EPA Region I - New England Region

1 Congress Street, Suite 1100

Boston, MA 02114-2023

January 10, 2005

George P. Luker
Attorney at Law
31 Main Street
Maynard MA 01754

Re: Joan Murphy, request for copy of February 9, 1988 response to EPA Request for Information concerning the Murphy Waste Oil Site located at 259 (Rear) Salem Street, Woburn, MA.

Dear Mr. Luker:

As per your written request and authorization from your client Joan Murphy dated December 28, 2004, please find enclosed a complete copy of the February 9, 1988 response to EPA's Request for Information under section 104(e) of CERCLA, provided by your client as referenced above.

If you have any questions or require any additional information or documentation, please feel free to contact me directly at (617) 918-1407 or via e-mail at Bosworth.Martha@EPA.gov.

Sincerely,

A handwritten signature in cursive script, reading "Martha Bosworth", is written over a horizontal line.

Martha Bosworth
Enforcement Coordinator
USEPA Office of Site Remediation and Restoration



ENVIRONMENTAL SERVICES, INC.

1501 WASHINGTON STREET, P.O. BOX 850327 • BRAintree, MA 02185-0327

(781) 849-1800

Visit our Website at www.cleanharbors.com

JULES B. SELDEN
SENIOR COUNSEL
EXTENSION 4182

LAW DEPARTMENT
(781) 849-1800
FAX (781) 356-1375

VIA CERTIFIED MAIL MAIL

December 27, 1999

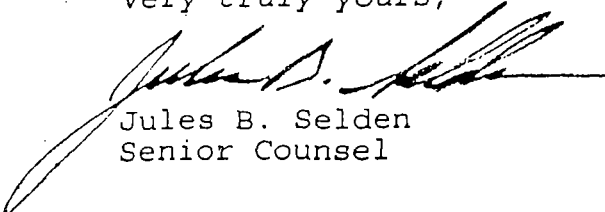
U.S. Environmental Protection Agency
Attn: Martha Bosworth, Responsible Party Coordinator
Office of Site Remediation and Restoration
P.O. Box 8547
Boston, MA 02114

Re: CERCLA Section 104(e) Request for Information
Relating to the Beede Waste Oil Superfund Site

Dear Ms. Bosworth:

Enclosed please find Clean Harbors, Inc.'s responses to the above-referenced Request for Information dated October 4, 1999. Also enclosed is an executed Declaration.

Very truly yours,



Jules B. Selden
Senior Counsel

Enclosures

cc: Cynthia A. Lewis, Esquire (w/o encs)

1985, Clean Harbors of Braintree, Inc. purchased the stock of SCA from CWM. Respondent has no information as to whether RIT or SCA ever did business with the Beede Waste Oil Site. As stated in the notes to the response to Question 1.i below, all Superfund site issues arising with respect to Recycling Industries, Inc. and SCA Chemical Services (MA), Inc. are handled for Respondent by Chemical Waste Management. Respondent has no independent knowledge with respect to such issues.

- o Respondent's investigation has also indicated that, to the best of the knowledge and recollection of a former Murphy's driver/employee, during the period from 1981 through its time of purchase by Clean Harbors on February 8, 1989 (the Transaction date), Murphy's Waste Oil Service, Inc. did not transport any wastes to the Beede Site.
- o Joan E. Murphy, a former (pre-Transaction) officer, director and shareholder of Murphy's Waste Oil Service, Inc., has stated through her attorney, George P. Luker, that, to the best of her recollection, Murphy's Waste Oil Service, Inc. never had any pre-Transaction dealings with the known corporations who operated at the Beede Waste Oil Superfund Site (i.e., those corporations listed in EPA's October 4, 1999 letter).

Respondent, having conducted a diligent investigation, has no information indicating that it ever used any of the independent transporters listed in the EPA's letter to transport its or its customers' wastes to any location. Respondent has an extensive audit program and only uses third-party transporters which it audits and approves. None of the listed transporters has been or is on Respondent's approved list.

However, Respondent did business with the following listed transporters as follows:

A & A Waste Oil: During or about 1993, Clean Harbors purchased some waste oil from A & A Waste Oil. It was delivered to Murphy's Waste Oil Service, Inc.'s facility at 252 Rear Salem Street, Woburn, MA.

Bonner Industries: For about an approximate six-month period during 1993, Clean Harbors purchased some waste oil from Bonner Industries. It was delivered to Murphy's Waste Oil Service, Inc.'s facility at 252 Rear Salem Street, Woburn, MA.

Marlyn Engineering Corporation:

During the 1983 to 1984 time period, Clean Harbors of Kingston, Inc. (n/k/a Clean Harbors Environmental Services, Inc.) hired Marlyn Engineering Corporation to sandblast some storage tanks at the Clean Harbors Kingston Facility Corporation location, 30 (formerly 100) Joseph Street, Kingston, MA. Clean Harbors disposed of its own waste from the activity, and did not use Marlyn Engineering Corporation to transport or dispose of it.

[Joan E. Murphy, a former (pre-Transaction) officer, director and shareholder of Murphy's Waste Oil Service, Inc., has stated through her attorney, George P. Luker, that, to the best of her recollection, Murphy's Waste Oil Service, Inc. never had any dealings with the transporters listed in EPA's October 4, 1999 letter.

[Response provided by Jules B. Selden, Scott Day, Mark Sullivan, Peter Egan, Eric Gerstenberg, Christopher Borowy]

1.e See response to Question 1.d above.

1.f Respondent currently conducts a waste oil business, Murphy's Waste Oil Service, Inc., at 252 Rear Salem Street, Woburn, Massachusetts. Waste oil and oily water, collected from industrial sources, spills, etc. throughout New England, are transported to the facility. The incoming waste is tested for PCBs, total halogens and flash point in accordance with the Facility's permit. If the material is determined to be suitable for acceptance, it is offloaded, treated and recycled. The treated water is bulked and transported to Clean Harbors' facility in South Portland, Maine for discharge to a P.O.T.W., sludges are stabilized and sent either to a secure landfill or to a non-hazardous waste incinerator, and the reclaimed oil is resold as specification used fuel oil.

Respondent's facility located at 30 (formerly 100) Joseph Street, Kingston, Massachusetts, is currently used to store excess waste oil, and also serves as a base for a waste oil collection truck. Although it maintains a valid permit, no treatment or recycling of waste oil is performed at that location. The location also houses Clean Harbors' training facilities and is the office headquarters for Harbor Management Consultants, Inc. and Harbor Industrial Services (a recently established division of Clean Harbors Environmental Services, Inc.).

separation and filtration were used to clean waste oil at that location.

[Response provided by Jules B. Selden and Scott Day]

- 3.b Respondent recycled specification and off-specification waste oil and oily water. The types and quantities of used or waste oils stored, treated, handled or reclaimed by Respondent from 1980 through August 1994 cannot be calculated or otherwise ascertained. Millions of gallons were involved. The information is contained in tens (or possibly hundreds) of thousands of manifests and shipping documents stored at Respondent's facilities.

[The documents stored at the Murphy's Waste Oil Service, Inc. facility in Woburn, Massachusetts do not include those generated prior to the Transaction. Respondent never received those documents from the former owners of Murphy's Waste Oil Service, Inc..

[Response provided by Scott Day, Peter Egan and Jules B. Selden]

- 3.c As stated above, Respondent recycled specification and off-specification waste oil and oily water. Each facility has a Waste Analyses Plan which is part of its government approved and issued license or permit, and all documentation associated therewith is maintained at each facility. Thousands of manifests, shipping documents and laboratory analyses sheets are generated each month at each facility. The requirements, procedures and parameters followed are set forth in 40 CFR Part 279 (and the facility's license or permit). Specific constituents of the waste oil are set forth on the tens (or possibly hundreds) of thousands of manifests, analytical reports and shipping documents maintained at Respondent's facilities. Each of Respondent's facilities processes thousands of these documents per month.

[Response provided by Scott Day and Peter Egan]

- 3.d See responses to Questions 3.b and 3.c above.

- 3.e Waste oils and oil additives were stored in steel tanks.

[Response provided by Scott Day]

- 3.f See response to Question 3.a above.

certificate (indicating that it was transferred from Clean Harbors of Kingston, Inc.) is attached hereto as an Addendum to Exhibit 4.b.

[Response provided by Jules B. Selden]

4.c During the two-year period prior to the Transaction, Clean Harbors was engaged in the following activities:

- o Waste management services, including transportation, treatment, storage, and disposal of hazardous and non-hazardous waste;
- o Emergency response services;
- o Site investigation and remediation;
- o Analytical laboratory services; and
- o Collection, recycling and resale of waste oil.

[Response provided by Jules B. Selden and Scott Day]

4.d During the two-year period after the Transaction, Clean Harbors was engaged in the following activities (which were unchanged from the two-year period prior to the Transaction):

- o Waste management services, including transportation, treatment, storage, and disposal of hazardous and non-hazardous waste;
- o Emergency response services;
- o Site investigation and remediation;
- o Analytical laboratory services; and
- o Collection, recycling and resale of waste oil.

[Response provided by Jules B. Selden and Scott Day]

4.e Murphy's Waste Oil Service, Inc. was originally engaged in the business of collecting, recycling and resale of waste oil. Prior to the Transaction, Clean Harbors was also involved in the same type of business. During the two-year period prior to the Transaction, Murphy's Waste Oil Service, Inc. conducted its business using one employee until September 1987, and then was inactive due to the illness of its President, John F. Murphy. Upon acquisition of the Stock of Murphy's Waste Oil, Inc. on February 8, 1989, Clean

[Harbors continued its own business of collecting, recycling and resale of waste oil, both in its own name and under the name of Murphy's Waste Oil Service, Inc. While this was the same type of business which Murphy's Waste Oil Service, Inc. had previously conducted until September 1987, it was not a continuation of Murphy's business per se.

[Response provided by Jules B. Selden, Scott Day and Mark Sullivan]

- 4.f The post-Transaction business of Murphy's Waste Oil Service, Inc. was and is still carried out at the same leased physical location where Murphy's Waste Oil Service, Inc. was located prior to the Transaction. Please note that, as stated in the response to Question 4.e above, this business was not a continuation of Murphy's pre-Transaction business, as that Corporation had been inactive for a 17-month period prior to the Transaction.

[Response provided by Jules B. Selden]

- 4.g.i During the two-year period prior to the Transaction, it was Respondent's business practice to hire individuals who were qualified to fill the available positions. These individuals were identified through responses to advertisements, through referrals from other employees, and through interviews with "walk-in" applicants.

[Response provided by William F. O'Connor]

- 4.g.ii During the two-year period prior to the Transaction, it was Respondent's business practice to train all of its operating personnel, with emphasis on health and safety. It was Respondent's practice to comply with all applicable federal, state and local laws, regulations and ordinances relating to health and safety. (Please note that this is still Respondent's practice.)

[Response provided by Mark R. Arriens and Jules B. Selden]

- 4.g.iii During the two-year period prior to the Transaction, it was Respondent's business practice to train its personnel in their specific job responsibilities. Respondent also operated a training center in Kingston, Massachusetts where it conducted OSHA training for its employees. Respondent's drivers underwent DOT training. In addition, Respondent offered a tuition reimbursement program to its employees for undergraduate courses.

4.h.xiii See the response to Question No. 4.g.xiii above.
Respondent's practices relative to billing remained unchanged after the Transaction. The Transaction had no effect on these practices.

[Response provided by George L. Curtis]

4.h.xiv See the response to Question No. 4.g.xiv above.
Respondent's practices relative to customer files remained unchanged after the Transaction. The Transaction had no effect on these practices.

[Response provided by George L. Curtis]

4.i

Respondent's corporate health and safety manual
Respondent's general pricing rules
Respondent's sales brochures
Respondent's salesmen's handbook
Respondent's customer databases
Respondent's journal pricing rules
Various hazardous waste manifests
Respondent's "Annual Report Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934" (a/k/a Form 10-K)
Facility permits and licenses
Respondent's general corporate files
Respondent's general corporate practices
Respondent's corporate policies and procedures manual

[Response provided by individuals responding to other questions herein]

4.j [Prior to the Transaction (except for the approximately 17-month inactive period immediately preceding the Transaction), Murphy's Waste Oil Service, Inc. was engaged in the business of collecting, recycling and resale of waste oil. Clean Harbors engaged in the same business prior to the Transaction, and continued to engage in the same business after the Transaction.

[Response provided by Jules B. Selden and Scott Day]

4.k See responses to Questions 4.d and 4.j above.

4.l It was respondent's general practice to announce acquisitions. However, having used due diligence and inquiries, Respondent is unable to identify any documentation or other record of any specific announcement or publicization having been made. The acquisition was

addressed in Respondent's subsequent filings with the Securities and Exchange Commission (Forms 10-K), and in its annual report to its shareholders.

Note: Clean Harbors' sales personnel and other employees advised customers and potential customers of Respondent's expanded capabilities.

[Response provided by Jules B. Selden and C. Michael Malm (and George L. Curtis, and Scott Day for the Note)]

4.m [At the time of the Transaction, Murphy's Waste Oil Service, Inc. was inactive and had no customers. After the Transaction, Respondent, both in the name of Clean Harbors and Murphy's Waste Oil Service, Inc. sought to expand its customer base and solicited customers in the geographic area where Murphy's Waste Oil Service, Inc. had conducted business prior to becoming inactive approximately 17 months before the Transaction. Some of Clean Harbors' and Murphy's Waste Oil Service, Inc.'s new customers were former customers of the pre-Transaction Murphy's Waste Oil Service, Inc. Some of these remain Clean Harbors' and Murphy's customers today.

[Respondent recollects that, some time after the Transaction, a former (pre-Transaction) officer of Murphy's Waste Oil Service, Inc. prepared a list of former customers (i.e., customers which the Company serviced prior to its period of inactivity) and gave it to Respondent. That list no longer exists.

[Response provided by Scott Day and Mark Sullivan]

4.n [At the time of the Transaction, Murphy's Waste Oil Service, Inc. was inactive and, to Respondent's knowledge, had no suppliers or vendors. After the Transaction, Respondent used its own suppliers and vendors (i.e., those which Clean Harbors had used in its own business prior to the Transaction) or engaged new ones as time went on. If any of Respondent's suppliers and vendors after the Transaction were those which may have been used by Murphy's Waste Oil Service, Inc. prior to the Transaction, such was purely coincidental.

[Response provided by Scott Day and Mark Sullivan]

4.o [The debts, obligations and other liabilities assumed or otherwise acquired by Clean Harbors in the Transaction are detailed in the Stock Purchase Agreement referenced in the response to Question 4.a above, a copy of which has been provided in response to Question 4.b above as Exhibit 4.b.

[Response provided by Jules B. Selden]

- 4.p [Murphy's Waste Oil Service, Inc. did not cease operations, liquidate or dissolve in connection with the Transaction. It should be noted, however, that during the approximately 17-month period prior to the Transaction, Murphy's Waste Oil Service, Inc. was inactive due to the illness of its President.]

[Response provided by Jules B. Selden]

- 4.q Not applicable.

- 4.r After the date of the Transaction, Clean Harbors continued to use the name "Murphy's Waste Oil Service, Inc." as one of its wholly-owned subsidiaries, and that use continues to the present time.

[Response provided by Jules B. Selden]

- 4.s As agreed to during a telephone conversation on November 17, 1999 between Respondent's counsel, Jules B. Selden, and EPA's counsel, Cynthia A. Lewis, the response to this question need only address the corporate entity which purchased Murphy's Waste Oil Service, Inc. (Clean Harbors of Kingston, Inc.) and its parent corporation (Clean Harbors, Inc.).

Prior to the transaction, six (6) individuals held positions as officers of Clean Harbors, Inc., and five (5) individuals held positions as officers of Clean Harbors of Kingston, Inc. All of the officers of Clean Harbors of Kingston, Inc. were also officers of Clean Harbors, Inc.

[Response provided by Jules B. Selden]

- 4.t As agreed to during a telephone conversation on November 17, 1999 between Respondent's counsel, Jules B. Selden, and EPA's counsel, Cynthia A. Lewis, the response to this question need only address the corporate entity which purchased Murphy's Waste Oil Service, Inc. (Clean Harbors of Kingston, Inc.), its parent corporation (Clean Harbors, Inc.) and post-Transaction Murphy's Waste Oil Service, Inc.

After the Transaction, six (6) individuals held positions as officers of Clean Harbors, Inc. and five (5) individuals held positions as officers of Clean Harbors of Kingston, Inc. All of the officers of Clean Harbors of

After the Transaction, one (1) individual held the position as sole director of Murphy's Waste Oil Service, Inc. This individual, whose directorship commenced upon the Transaction, was also a director (both prior to and after the Transaction) of Clean Harbors, Inc. and Clean Harbors of Kingston, Inc.

[Response provided by Jules B. Selden]

- 4.x No Clean Harbors, Inc. directors (and no directors of its subsidiary corporations) after the Transaction were formerly (pre-Transaction) officers, directors, shareholders or employees of Murphy's Waste Oil Service, Inc.

[Response provided by Jules B. Selden]

- 4.y Clean Harbors, Inc. is a publicly traded corporation whose shares are traded on the NASDAQ National Market System. Because many of the shares are held in street name (i.e., they are listed to a brokerage house which may be holding them for numerous clients), it is impossible to state the exact number of Respondent's shareholders before the Transaction. However, the Respondent's annual report to its shareholders for its fiscal year ending February 28, 1989 indicated that there were 7,830,000 shares of common stock issued.

[Responded to by Jules B. Selden]

- 4.z Clean Harbors, Inc. is a publicly traded corporation whose shares are traded on the NASDAQ National Market System. Because many of the shares are held in street name (i.e., they are listed to a brokerage house which may be holding them for numerous clients), it is impossible to state the exact number of Respondent's shareholders after the the Transaction. However, the Respondent's annual report to its shareholders for its fiscal year ending February 28, 1989 indicated that there were 7,830,000 shares of common stock issued.

[Responded to by Jules B. Selden]

- 4.aa [As stated in the responses to Question Nos. 4.y and 4.z above, Respondent is a publicly traded corporation. It is impossible to tell if any of Respondent's shareholders immediately after the Transaction were former Murphy's Waste Oil Service, Inc.'s employees. As stated elsewhere in these Responses, at the time of the Transaction, there were no Murphy's Waste Oil Service, Inc. employees. If any former employees of Murphy's (i.e., employees who once

worked for Murphy's and departed years prior to the Transaction) owned Clean Harbors' stock after the Transaction, it was, in all probability, purchased by them privately on the open market for their own personal purposes.

The Transaction did not involve the purchase or awarding of Clean Harbors stock.

George R. Luker, Esq., attorney for Joan E. Murphy, has stated upon information and belief that both prior to and after the Transaction, Joan E. Murphy and her late husband, John F. Murphy, the sole stockholders, officers and directors of Murphy's Waste Oil Service, Inc. prior to the Transaction, owned common stock of Clean Harbors, Inc. This stock was purchased for their own personal investment purposes on the open market, and had no relation whatsoever with the Transaction.

[Response provided by Jules B. Selden]

- 4.ab Respondent has no records which indicate the number of its employees before the Transaction. However, Respondent's "Annual Report Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934" (a/k/a Form 10-K) dated May 1989 and submitted to the Securities and Exchange Commission for Respondent's Fiscal year ending February 28, 1989 states that "[A]s of May 15, 1989, the Company employed 1,240 people on a full-time basis."

[Responded to by Jules B. Selden and William F. O'Connor]

- 4.ac Respondent has no records which indicate the number of its employees after the Transaction. As stated above in the response to Question No. 4.ab, Respondent's "Annual Report Pursuant to Section 13 or 15(d) of The Securities Exchange Act of 1934" (a/k/a Form 10-K) dated May 1989 and submitted to the Securities and Exchange Commission for Respondent's Fiscal year ending February 28, 1989 states that "[A]s of May 15, 1989, the Company employed 1,240 people on a full-time basis."

As stated in the response to Question No. 4.ad below, for approximately 17 months prior to and at the time of the Transaction, Murphy's Waste Oil Service, Inc. had no employees, and Clean Harbors gained no former Murphy's Waste Oil Service, Inc. employees through the Transaction. Therefore, there would have been no difference in the number of Clean Harbors employees immediately before the Transaction and immediately after the Transaction.

[Responded to by Jules B. Selden and William F. O'Connor]

PRELIMINARY SITE ASSESSMENT

**Murphy's Waste Oil Service, Inc.
252 and 252 Rear Salem Street
Woburn, Massachusetts**

Prepared for:

**Clean Harbors, Inc.
325 Wood Road
Braintree, Massachusetts 02184**

Prepared by:

**Clean Harbors Environmental Engineering Corporation
325 Wood Road
Braintree, Massachusetts 02184**

January 1989

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APPENDIX D: DEQE - Division of Water Pollution Control
APPENDIX E: DEQE - Licensing Division Research



ENVIRONMENTAL ENGINEERING CORPORATION

325 WOOD ROAD, BRAINTREE, MA 02184

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EXECUTIVE SUMMARY

Based on the findings of a Preliminary Site Assessment study, a subsurface investigation program should be conducted on the site. The purpose of the investigation should be to evaluate subsurface conditions for evidence of contamination. This recommendation is based on the historical uses of the site as a bulk oil storage facility and releases of oils and hazardous materials used on nearby properties. The on-site soil and groundwater testing parameters should include evidence of petroleum contamination and coincide with the United States Environmental Protection Agency (US-EPA) testing parameters for nearby properties; the site is situated within a one-square-mile US-EPA study area as listed on the National Priorities List (#312 of 770 sites). The study area was listed based on chlorinated solvent contamination of two municipal drinking water wells, located one-quarter of a mile from the site.

From the 1920's to 1987, the site was primarily used a bulk oil storage facility with a maximum storage capacity of 125,000 gallons. Land spreading of waste oils and incidental petroleum product releases would be the primary sources of the on-site petroleum contamination that may exist on the site. The land spreading of waste oils was an approved dust control measure until the late 1970's; site occupants ceased this activity in the late 1970's. Incidental releases of petroleum products on the site included: a surficial release of approximately 150 gallons of diesel fuel (1987), and an unknown quantity of a petroleum product, presumed to be diesel fuel or gasoline (1987). Apparently, a portion of the site was historically used as an "oil pit" (1950's); no documentation or other reports were found during this investigation to support this statement.

Abutting developed properties are occupied by a tannery, a former drum and tank reconditioning facility, a railroad line and residences. A strong, foul odor, resembling hydrogen sulfide, has often been noted emanating from the tannery property; an air-monitoring program for the site relative to this emission should also be considered. Many documented petroleum product and hazardous material releases as well as reported releases have occurred on most of these abutting properties. The northern abutting property is undeveloped land historically used for dumping of hazardous materials, particularly chlorinated solvents.

Some migratory pathways to be considered include: the sewer easement on the site used for tannery wastewater discharge (which has periodically overflowed); potentially contaminated groundwater flowing through the site from upgradient properties (groundwater flow patterns are and have been altered during pumping of nearby production wells for the tannery); and possibly contaminated surface water runoff/drainage. Details of the Preliminary Site Assessment study are presented in the attached report.



ENVIRONMENTAL ENGINEERING CORPORATION

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Clean Harbors Environmental Engineering Corporation (CHEE) is pleased to submit this Preliminary Site Assessment report for the property located at 252 Salem Street and 252 Rear Salem Street in Woburn, Massachusetts (the site). The site is owned by Old Oil Realty Trust and is occupied by Murphy's Waste Oil Service, Inc., a waste oil and virgin oil storage facility.

This investigation was conducted to determine whether releases of oils and/or hazardous materials have occurred on the site. CHEE evaluated on-site conditions relative to uses and storage of these materials, and whether any releases of these materials on nearby properties has any impact on the site.

A series of soil borings and groundwater monitoring wells must be performed on the site to further evaluate subsurface conditions. Based on the findings of this investigation, waste oils were periodically spread along the access driveways on the site until the late 1970's. At that time, State agencies approved this as a dust control measure. Land spreading of waste oils and incidental petroleum product releases would be the primary sources of the on-site petroleum contamination that may exist on the site. The land spreading of waste oils was an approved dust control measure until the late 1970's; site occupants ceased this activity in the late 1970's. Incidental releases of petroleum products on the site included: a surficial release of approximately 150 gallons of diesel fuel (1987), and an unknown quantity of a petroleum product, presumed to be diesel fuel or gasoline (1987). Apparently, a portion of the site was historically used as an "oil pit" (1950's); no documentation or other reports were found during this investigation to support this statement.

The subsurface exploration program should also include evaluation of contaminants present on the site from off-site sources. Three abutting properties have historically been used for dumping oils and/or hazardous materials. Since nearby production wells alter groundwater flow patterns, it is likely that the contaminants on nearby properties, if any, migrated to the site. The US-EPA and State agencies are currently investigating these three properties (among all other nearby properties, including the site) for evidence of contamination of the two nearby municipal drinking wells. It does not appear likely, at this time, that the historical uses of the site impacted the water quality in the municipal wells.

SCOPE OF WORK

This report summarizes the findings of an assessment which includes interviews with local, State and Federal officials and area property occupants; review of local, State and Federal documents; site visits; and information provided by representatives of Murphy's Waste Oil Service, Inc. of Woburn, Massachusetts.

The information presented in this report is based solely on available documents for review and officials for interviews. Due to litigation factors pursuant to site area properties, some information was not available for public review. The information incorporated within this report was accumulated during the months of December 1987 and November 1988.

Massachusetts Department of Transportation regulations for oils (MOO1). Prior to their removal in March 1988, these tanks were located in an area on the northern portion of the site referred to as the "oil yard" (detailed later).

Chief Robert Doherty of the City of Woburn Fire Department and area property occupants interviewed reported that Murphy's Waste Oil Service, Inc. was considered to be a "very clean and well run operation." Chief Robert Doherty additionally reported no known incidents of any releases of oils and/or hazardous materials on the site. A copy of a Site Visit Report prepared by Chief Doherty on December 1, 1982 for the Department of Environmental Quality Engineering (DEQE) is attached in Appendix A.

Ms. Gretchen Latowsky of FACE (For A Cleaner Environment), a non-profit, community hazardous waste awareness organization headquartered in Woburn, Massachusetts, reported that their organization would prefer to have the Murphy's Waste Oil facility reopened for acceptance of waste oils. Ms. Latowsky mentioned that Murphy's Waste Oil Service, Inc. was considered to be a "service to the community since the Murphy's would keep their facility open on Saturday mornings to accept waste oils from community residents."

During the months of December 1987 and August 1988, CHEE representatives visited the site; their observations have been incorporated in the discussions below. Exterior surface conditions were observed for: evidence of staining, excavation, filling and dumping; the presence of installed underground storage tanks; storage of oils and/or hazardous materials; and other signs of potential contamination. Interior portions of the site were generally inspected by Clean Harbors, Inc. (CHI) personnel.

For purposes of discussion, the site has been divided into three sections: Northern, Central and Southern. These sections on the site are distinguished by a chain-link fence. Figure 5, the Site Plan, illustrates these sections.

Northern Section

The Northern Section is not paved and is referred to by property occupants and site plans (dated in the 1920's) as the "oil yard." A dirt pathway or roadway travels through this Section parallel with the Boston and Maine railroad lines. Five concrete blocks (one-cubic yard in size) are situated at the northwestern-most portion of this Section at the end of the dirt pathway. Seven aboveground storage tanks for temporary waste oil or virgin oil storage are situated in this area as well. The tank locations and sizes of the existing seven tanks and the former 13 tanks are displayed on Figure 5.

The seven aboveground storage tanks are situated on the eastern portion of this Section. The tanks are surrounded by a concrete dike which is constructed two feet above and below the ground surface. No evidence of contamination was encountered during installation of the concrete dike, which occurred in September 1986. Photographs taken during the concrete dike installation verify this information; the photographs are attached as Appendix B.



groundwater flow may have been in a north by northwesterly direction. This situation would have made the easterly abutting property (formerly occupied by the Whitney Barrell Company) hydrologically upgradient.

If pumping activities of both production wells ceased, groundwater would most likely follow the topography of the area and flow in an easterly or southeasterly direction toward the Aberjona River. Information regarding contaminants detected in the production wells is discussed in the section entitled **US-EPA: Contamination of the Aberjona River Basin.**

Two other wells are situated within this portion of the Aberjona River basin. These wells are identified, by the City of Woburn Public Works Department, as public drinking water Wells G and H. These wells are situated approximately one-quarter mile northeast of and hydrologically (and topographically) downgradient from the site. Due to contamination levels detected in these wells, the wells were closed and pumping ceased in 1979.

The nearest actively used public drinking water supplies to the site are located approximately 2.5 miles west of and upgradient from the site. Additional information regarding the closure of Wells G and H and impacts of this contamination relative to the site area is discussed in the section entitled **US-EPA: Contamination of the Aberjona River Basin.**

TOPOGRAPHY and GEOLOGY OF THE SITE

Topographically, the site generally slopes in an easterly direction toward the Aberjona River. The elevation on the western portion of the site is approximately 60 feet National Geodetic Vertical Datum (NGVD) of 1929, while the elevation on the eastern portion of the site is approximately 45 feet NGVD. The south-central portion of the site has a steep acclivity to an elevation of approximately 75 feet NGVD. These topographic features agree with the USGS study previously mentioned.

SITE LOCATION

The site is located at 252 Salem Street and 252 Rear Salem Street in the eastern portion of the City of Woburn, Massachusetts. The general location of the site is illustrated on Figure 1.

The site consists of one parcel of land zoned "industrial-park" which has a total area of approximately 3.4 acres. The City of Woburn Assessor's Office designates the site as Map 16, Block 005, Parcel 41. Site boundaries and other details are shown on Figure 4.

SITE DESCRIPTION

The site is primarily occupied by Murphy's Waste Oil Service, Inc., a waste oil and virgin oil storage facility. The operations of the Murphy's Waste Oil Service, Inc. facility have ceased since the summer of 1987.

In general, waste oils and occasionally virgin oils were transported to the site in bulk loads and temporarily stored on the site in aboveground storage tanks labeled according to the

Massachusetts Department of Transportation regulations for oils (MOO1). Prior to their removal in March 1988, these tanks were located in an area on the northern portion of the site referred to as the "oil yard" (detailed later).

Chief Robert Doherty of the City of Woburn Fire Department and area property occupants interviewed reported that Murphy's Waste Oil Service, Inc. was considered to be a "very clean and well run operation." Chief Robert Doherty additionally reported no known incidents of any releases of oils and/or hazardous materials on the site. A copy of a Site Visit Report prepared by Chief Doherty on December 1, 1982 for the Department of Environmental Quality Engineering (DEQE) is attached in Appendix A.

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For purposes of discussion, the site has been divided into three sections: Northern, Central and Southern. These sections on the site are distinguished by a chain-link fence. Figure 5, the Site Plan, illustrates these sections.

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The Northern Section is not paved and is referred to by property occupants and site plans (dated in the 1920's) as the "oil yard." A dirt pathway or roadway travels through this Section parallel with the Boston and Maine railroad lines. Five concrete blocks (one-cubic yard in size) are situated at the northwestern-most portion of this Section at the end of the dirt pathway. Seven aboveground storage tanks for temporary waste oil or virgin oil storage are situated in this area as well. The tank locations and sizes of the existing seven tanks and the former 13 tanks are displayed on Figure 5.

The seven aboveground storage tanks are situated on the eastern portion of this Section. The tanks are surrounded by a concrete dike which is constructed two feet above and below the ground surface. No evidence of contamination was encountered during installation of the concrete dike, which occurred in September 1986. Photographs taken during the concrete dike installation verify this information; the photographs are attached as Appendix B.



An additional two-foot to four-foot earth dike encompasses the tank area and apparently consists of clay and sand. The 13 aboveground storage tanks and a 500-gallon tank truck body were removed in March 1988 from the western portion of this Section; these tanks were located within the earth dike area. Oil staining was observed on most of the former tank fill pipes, the former tank truck body and surrounding soils. An oil-like odor was additionally noted on soils near the tank truck body near the northern earth dike wall.

Soil contamination was encountered below one of the tanks during the tank removal process. The contaminated area appeared to be confined to the immediate vicinity of the tank. The contaminated soils were removed from the site for proper disposal in February 1988. The Uniform Hazardous Waste Manifest for this soil disposal activity is attached as Appendix C.

Materials observed protruding from the earth dike include toys, one-gallon and five-gallon metal containers, a tool box, fence, tree stumps, metal and rubber pipes, wire mesh, wood beams and other miscellaneous debris. No evidence of staining was observed by CHEE representatives on the soils of the earth dike. An empty, crushed 55-gallon plastic drum was additionally located in this area.

In December 1987, thirteen 55-gallon drums were situated along the outside western wall of the concrete dike; eight of the drums were empty, while the remaining drums most likely contained oils. According to CHI representatives, the drums were used for wastes generated during tank cleaning processes on the site. As of February 1988, these drums have been removed from the site for proper disposal.

Fire Department and City Clerk records reviewed indicate that a Certificate of Registration was granted in 1940 for the site for storage of "125,000 gallons." The certificate does not specify material stored, whether storage is in aboveground or underground containers, and the number and sizes of storage containers. Apparently, the seven tanks located within the concrete dike (eastern portion of this Section) have never been used. No additional information was found in these records reviewed indicating the presence of tanks on the site prior to 1940. No evidence of installed underground storage tanks or excavation was observed on this Section of the site.

A City of Woburn sanitary sewer easement traverses the north-central portion of the Northern Section with a west to east orientation. The sewer which occupies this easement originates at the westerly abutting property. The sewer is used by the John J. Riley Tannery and discharges into a main line of the City of Woburn sanitary sewer system. Site representatives indicated that the wastewater in the sewer periodically overflowed. At one point, the pressure of the wastewater in the sewer caused the manhole cover on the site to rise approximately six feet above the ground surface. The volume of wastewater that overflowed on the site was not estimated.

Both the Massachusetts Water Resources Authority (MWRA) sanitary sewer system and City of Woburn sewer system easements are situated approximately 175 feet east of the site. Additional information regarding a DEQE moratorium Administrative Order is attached as Appendix E.



Central Section

The Central Section of the site is occupied by the North Suburban Transportation Company of Woburn, Massachusetts for use as a school bus parking lot. The agreement established between the Murphy's Waste Oil Service, Inc. and the North Suburban Transportation Company was that the North Suburban Transportation Company would occupy the designated area of land (the Central Section of the site) as a Tenant at Will. This agreement was initiated September 1, 1987.

The Central Section is covered by a layer of gravel. The boundaries of the Central Section are defined by the Boston and Maine railroad tracks west of this Section and the easterly abutting Allen Glass and Mirror property.

Topographically, the western and southern portions of this Section have a sharp 25-foot to 30-foot acclivity, while the eastern portion has a sharp 5-foot declivity. This area was filled to the existing level in 1978.

Approximately 50 automobiles, two fuel oil trucks and school buses are parked in this section after school hours. The school buses are refueled daily on school days at approximately 10:00 am or 3:00 pm. Materials located along the perimeter of this section include batteries, tires, piles of brush, 55-gallon drums containing burned rubbish, automobile parts, an old pickup truck with household furniture, and other miscellaneous debris.

A parked trailer, apparently used as the office by the North Suburban Transportation Company, is located on the south-central portion of this section. Immediately south of this trailer is an area that appears to have been formerly used to store a large piece of equipment. Oil staining is present on the exposed soils and no vegetation exists in this 150-square-foot area.

During a site visit by CHEE representatives in November 1987, a representative of the North Suburban Transportation Company was observed burning rubbish in two 55-gallon drums. A liquid was applied to the rubbish through a hose to promote burning. The type of liquid used was not determined during this investigation.

Until March 1988, a partially buried tank was located on the southeastern portion of this section. The tank appeared to have a storage capacity of 275 gallons and was labeled "Waste Motor Oil Only." This tank was used by Murphy's Waste Oil Service, Inc. for community residents to dispose of their waste automotive oils. No staining was observed near the fill pipe for this tank. This tank was also removed from the site in March 1988.

Southern Section

The southern portion of this Section is occupied by a garage. The garage is constructed of steel siding over a four-foot concrete foundation. The floor is also constructed of concrete and reportedly does not contain any floor drains.

From 1979 to the summer of 1987, Murphy's Waste Oil Service, Inc. used the garage as an office and for company truck maintenance. Since the summer of 1987, the facility operations have ceased and the maintenance garage is no longer used. This building is served by an on-site



septic system. CHI representatives reported no staining in the restroom sinks; no other sinks are reportedly located in the building. No problems associated with the septic system associated with this building were reported by Mr. Francis Ryan of the Woburn Board of Health. Information detailing the location of the septic system was not found during this investigation.

The garage is heated by oil which is stored in a 1,000-gallon underground storage tank located at the southeastern corner of the building. No information was available with (Chief Robert Doherty of the Fire Department or found in Fire Department and City Clerk records reviewed) indicating the tank size and installation date. Ms. Joan Murphy, site owner, has a copy of the permit for this tank which was issued in 1979. The fill and vent pipes for the 1,000-gallon underground heating oil storage tank were free of staining. An additional covered pipe was also observed protruding from the ground surface in this area. This pipe is apparently associated with the same underground tank. A copy of the permit for the 1,000-gallon underground storage tank is attached in Appendix D.

The area immediately north of the garage is used for miscellaneous storage including approximately 50 tires, automobile parts, one 35-gallon drum and one 55-gallon drum (both empty), four automobile batteries, pieces of wood and hose. The areas west and south of the garage are well-maintained and vegetated with grass.

An oil-stained area (approximately five feet by one foot) was observed on the pavement southwest of the building. The staining appeared to be confined to the immediate area. Eleven bottles, labeled bleach and containing oil, were in this area as well. As of February 1988, these bottles were moved into the garage. No significant signs of leakage from these containers were observed. No evidence of excavation was observed in this section.

CURRENT and HISTORICAL USES OF THE SITE

Throughout most of its history, the site has been primarily used as a waste oil and/or virgin oil temporary storage facility. Records and plans of the site indicate that an oil yard was located on the Northern Section of the site in the 1920's. Additional information regarding the site indicates that sand and gravel may have been removed from the site at this time. According to Ms. Joan Murphy, site owner, this area was filled in 1950 and then filled again in 1978 to the existing grade. Operations of the waste/virgin oil facility temporarily ceased between 1976 and 1977. At that time, the aboveground storage tanks were empty.

Ms. Rebecca Backman, Attorney with Wright and Moehrke Counselors at Law of Boston, Massachusetts, performed a limited historical summary of the site in response to an US-EPA Request for Information. The Response letter was submitted to the US-EPA on February 9, 1988. The information incorporated below was obtained from this Response letter.

Murphy's Waste Oil Service, Inc. has owned the site facility since July 7, 1977. The current owner of the site land is Old Oil Realty Trust which was deeded in 1980. Apparently, four deeds comprise the existing Parcel 41. In general, prior site owners include various members of the Frank Quinn Family which operated the facility as the Woburn Oil Company. The Woburn Oil Company reportedly began operations in the 1920's and only stored virgin oils. Ms. Mary Quinn, wife of Norman Quinn - former site owner, indicated that waste oils were additionally

accepted onto the site in the mid-1950's. Mr. Albert Shaevel, Joseph Flaherty and Mary Flaherty formerly owned portions of the site not considered as the oil yard.

Mr. William Murphy, a relative of the site owners, leased two of the tanks that were located on the northwestern portion of the Northern Section; these tanks were removed from the site in March 1988. Mr. William Murphy apparently used these tanks since the late 1970's as surplus waste oil storage to the storage facility he owned and operated at another location.

A 1966 aerial photograph of the site area shows seven aboveground storage tanks located in the Northern Section of the site. Significant oil staining of the soils is also evident in this photograph. The staining not only covers the area near the tanks and land east of the tanks, but also the right-of-way from Salem Street to the tank area. The 1966 aerial photograph also shows two contiguous buildings on the southeastern portion of the Southern Section. According to Building Department records reviewed, this structure was a dwelling which was razed in 1976. A Building Permit was issued in 1979 for the construction of a "warehouse" which is described as the garage in the **Site Description** section of this report. Figure 6 presents this 1966 aerial photograph of the site area.

A 1986 aerial photograph depicts the site with a total of 20 aboveground storage tanks and the existing garage. No significant evidence of the staining, as depicted in the 1966 aerial photograph, is shown. The two aboveground storage tanks shown on the Central Section of the site were relocated to the Northern Section of the site within the concrete dike area. These two tanks were removed from the site in March 1988. The existing concrete dike was installed around the tanks in the tank area in September 1986, subsequent to the March 1986 photograph. As previously mentioned, no signs of contamination were observed during the installation of this concrete dike. Figure 7 represents the 1986 aerial photograph. Additional information regarding former waste oil disposal practices is discussed in the **Petroleum and Chemical Spills/Releases** section.

CURRENT and HISTORICAL USES OF ADJACENT PROPERTIES

The properties near the site have historically been used for commercial and industrial purposes. Properties which abut the site include the John J. Riley Tannery and the Boston and Maine railroad tracks (west of the site); Toxikon Laboratories (northwest of the site); undeveloped wooded land known as the Wildwood Conservation Corporation property (north of the site); Allen Glass and Mirror - formerly the Whitney Barrell Company (east of the site); residences - one is equipped with garages used for lumber businesses (south of the site); and Alarm Device Supply and Associated Woodworks (the southern side of Salem Street). Figure 8 represents the current occupants of nearby properties and approximate locations of underground storage tanks.

John J. Riley Tannery - 228 Salem Street

This property is identified by the City of Woburn Assessor's Office as Map 16, Block 005, Parcels 95 and 96. This seven-acre property abuts the site on the western side of the Boston and Maine railroad tracks. This property is topographically and hydrologically upgradient from the site.



Since the late 1800's, this property has been used primarily by the John J. Riley Tannery to manufacture leather products by using hides of animals; this business was commonly referred to as leather tanning, tallow rendering, or japanning. Although this property was owned by various members of the John J. Riley Family since the late 1800's, the ownership has changed three times within the past nine years. In 1978, the John J. Riley Company became a division of Beatrice Foods, Inc. In 1983, Mr. John Riley regained ownership of the firm and then, in 1985, sold the tannery to its employees which continue to operate the facility as the John J. Riley Tannery.

Historical references regarding leather manufacturing (tannery) processes indicate that the hides of animals were placed in pits constructed below the ground surface. Various chemicals and preservatives were applied and, in the City of Woburn in particular, groundwater was flushed through the pits for rinsing purposes. This phase of leather manufacturing was typically a three- to six-month process.

Tannery Process and Wastes:

In general, hazardous materials and oils used during the leather manufacturing related processes included various solvents, lacquers and resins which are used in the finishing operation. Other chemicals used in the leather manufacturing operation include:

- ammonium sulfate,
- cyanide-based dyes,
- mercury and chromium compounds,
- naphthalene sulfonic acid,
- phenolic detergents,
- sodium sulfide,
- sodium carbonate,
- sulfuric acid,
- lime, calcium hydroxide or other caustic powders,
- kerosene, oils and emulsifiers,
- and ammonium chloride.

Tannery wastes typically include high levels of: total solids, volatile organic compounds, protein, sodium chloride (salt), total hardness, sulfide, chromium, mercury, and ammonium nitrogen, and a high biochemical oxygen demand (BOD). The pH is between 11 and 12. The odor of tannery waste has been defined as "objectionable" and similar to rotten eggs, or hydrogen sulfide. Other tannery wastes include bones, manure and flesh of the animal skins. Investigation of other tanneries in the area found much of this debris buried either on the tannery property or on nearby properties. This property, in addition to other nearby properties, is currently under investigation by the US-EPA and DEQE due to its proximity to the City Wells G and H; its historical use as a tannery; and former disposal practices of hazardous materials (which are further discussed in the section entitled **US-EPA: Contamination of the Aberjona River Basin**).

Production Well No. 1:

A production well is located on this property (known as the John J. Riley production well No. 1) and is situated on the eastern-most portion of the property adjacent to the Boston and Maine railroad tracks. Although the well has not been used within the past five to ten years, the well was



used to withdraw water which was utilized within the John J. Riley plant as process water since its installation date of 1945. The average daily gallonage acquired from this well is unknown; however, it has been reported that the well produced an estimated 300,000 gallons per day. The well was installed in "overburden" to a depth of approximately 35 feet below the ground surface. Information relative to the drawdown effects of this well relative to groundwater flow patterns on the site was previously discussed in the section entitled **Topography and Hydrogeology of the Site Area**.

Sludge Disposal Activities:

Situated slightly east of the well is a drainage culvert which discharges into a second drainage culvert located on the abutting railroad property between the tracks and the northwestern site boundary. A DEQE inspection discussion stated that:

"Sludges, which are the skimmings and bottom solids from the waste water catch basins are being stock-piled on-site, on an embankment above the rail-road track and the company's well house [John J. Riley production well No. 1 (sic)]. This stockpile is not covered in any way. Some erosion of the stockpiled sludge is occurring down to the railroad drainage ditch."

The inspection discussion relative to the drainage culvert continued with "this drainage flows south to the wetlands upstream of Whittenmore Pond." The DEQE requested sampling of this stockpiled sludge; the laboratory results are discussed in the section entitled **Department of Environmental Quality Engineering (Northeast Region) Research**.

Tanks:

According to Fire Department and City Clerk records reviewed, this property is equipped with two underground storage tanks: a 5,000-gallon gasoline tank and a 45,000-gallon Bunker Oil (Number Six fuel oil) tank. The Certificate of Registrations were granted by the City of Woburn in 1945, 1946, 1951 and 1974. No information was available with Chief Robert Doherty of the Fire Prevention Office regarding any known releases of oils and/or hazardous materials on this property.

Wildwood Conservation Corporation - Off Olympia Avenue

This 16-acre parcel abuts the northern site boundary and is positioned topographically and hydrologically upgradient from the site. The City of Woburn Assessor's Office identifies this property as Map 16, Block 005, Parcel 42. This property is primarily undeveloped land which was established as the Wildwood Conservation Corporation in 1985.

Production Well No. 2:

A production well (known as the John J. Riley production well No. 2) is located on the southern portion of this property located approximately 200 feet north of the northern site boundary. Although the property is established as the Wildwood Conservation Company, John J. Riley Tannery, Inc. still retains the water rights to this well. The water from this well is used as process water by the tannery.



Historical Dumping:

The US-EPA "has determined that there is an imminent and substantial endangerment due to the release of hazardous substances" on this property. To implement mitigation measures, the US-EPA issued an Order to construct a fence along the property perimeter. The purpose of the fence was to eliminate access to the property and prohibit dumping activities. The hazardous waste release detected on this property resultant of abandoned drums is further discussed in later sections entitled **Petroleum and Chemical Spills/Releases, Department of Environmental Quality (Northeast Region) Research - Woburn and US-EPA: Contamination of the Aberjona River Basin.**

Former Whitney Barrell - 256 Salem Street

This property is identified by the City of Woburn Assessor's Office as Map 16, Block 005, Parcel 37. This property abuts the eastern site boundary and is topographically downgradient from the site. During pumping activities of the John J. Riley production well No. 2, this property is hydrologically at the same elevation as the site. This property is currently occupied by Allen Glass and Mirror. No significant amounts of oils or hazardous materials are used by the Allen Glass and Mirror Company.

Historical Barrel Cleaning Activities:

The Whitney Barrell Company used this property as a 55-gallon drum reconditioning facility. A representative of Aberjona Auto Parts, east of Whitney Barrell, reported that there was always a tremendous number of drums and tanks on the property. To his knowledge, Whitney Barrell not only reconditioned drums on this property, but also reconditioned and dismantled tanks, including underground storage tanks from gasoline stations. The tank and drum cleaning process reportedly created a very strong odor often resembling vinegar and/or solvents. No information regarding the former contents of the drums was known by either the Aberjona Auto Parts representative or the Fire Department and Board of Health officials interviewed. The overall condition of this property was described by former tenants and property abutters as very poor: "the property was always a mess." Figures 6 and 7 provide an aerial representation of this property during the years 1966 and 1986.

Tanks:

A Certificate of Registration, dated 1975, was granted by the City of Woburn to Mr. John Whitney, former Whitney Barrell property owner. The two underground tanks licensed include a 5,000-gallon gasoline tank and a 5,000-gallon diesel fuel tank. No information was found during this investigation indicating that these tanks were ever installed. Additional information regarding this property is discussed in the sections entitled **Petroleum and Chemical Spills/Releases and Department of Environmental Quality Engineering (Northeast Region) Research.**



Juniper Development Group - 60 Olympia Avenue

This property is identified by the City of Woburn Assessor's Office as Map 16, Block 005, Parcel 1. This parcel is situated approximately one-half mile northeast of and hydrologically upgradient from the site. The property is currently owned by the Juniper Development Group which purchased the property from Hemingway Transportation in 1985. Prior to 1985, this property was additionally occupied by United Truck Leasing; both Hemingway Transportation and United Truck Leasing are truck terminals.

Tanks:

In 1963, Hemingway Transportation was granted a Certificate of Registration by the City of Woburn for five underground storage tanks. These underground tanks include one 6,280-gallon gasoline tank, two 5,000-gallon diesel fuel tanks, one 1,000-gallon waste oil tank and one 5,000-gallon Number Two heating oil tank. Additional information regarding the integrity of these tanks and petroleum releases on this property are discussed in the sections entitled **Petroleum and Chemical Spills/Releases** and **Department of Environmental Quality Engineering (Northeast Region) Research**.

Residences - 246, 248 and 250 Salem Street

These properties are respectively identified by the City of Woburn Assessor's Office as Parcels 40, 39 and 38; they abut the southern site boundary and are topographically upgradient from the site. These parcels are primarily used for residential purposes. Parcel 39 is additionally occupied by a garage and a lumber business. Large trucks and other heavy equipment were observed on this property. Piles of debris consisting primarily of scrap metal were observed along the site boundaries adjacent to this property.

Other Nearby Properties

Properties additionally located within a one-quarter-mile radius of the site include a former leather manufacturer (Murrays Leather Company - Corner of Wood Street and Salem Street); distribution centers; automobile parts and repair shops (including the Aberjona Auto Parts, an automobile "junk yard"); a water, soil and hazardous waste testing laboratory (Toxikon Laboratories); and other commercial buildings. Most of these properties are equipped with underground and/or aboveground tanks for petroleum product storage. Additional information regarding properties near the site currently under investigation by the US-EPA and/or DEQE is discussed in their respective sections and the section entitled **US-EPA: Contamination of the Aberjona River Basin**.



PETROLEUM and CHEMICAL SPILLS/RELEASES

This section addresses petroleum and chemical spills and/or releases which have occurred within the immediate vicinity of the site. This information has been compiled from review of the City of Woburn Fire Department records and interviews with Chief Robert Doherty of the Fire Prevention Office; Ms. Rodene Derice; Mr. Kingsley Ndi and Mr. Robert Cleary of the DEQE; Ms. Barbara Newman of the US-EPA; Ms. Joan Murphy, site owner, for spills/releases relative to the site. The spills and/or releases discussed below are shown on Figure 4.

Diesel Fuel Spill - Site (Central Section)

On December 17, 1987, CHEE representatives were conducting a site investigation on the Northern Section of the site and momentarily left the site between 9:30 am and 10:00 am. Upon their return, an estimated 100 to 150 gallons of diesel fuel had been released to the surface soils on the Central Section of the site from a North Suburban Transportation Company diesel fuel delivery truck.

Apparently, the diesel fuel release occurred during fueling of the school buses operated by the North Suburban Transportation Company. Several puddles of free-floating product were observed in the area of the spill. Cleanup measures undertaken by representatives of the North Suburban Transportation Company consisted of applying Speedi-Dri to the spill area and utilizing a "shop-vac" to retrieve the spilled product.

On December 18, 1987, CHEE representatives returned to the site to continue the investigations. Upon their arrival at approximately 9:00 am, a load of stone was being applied to the site in the area of the spill. A backhoe was used to apply the load of stone which consisted of approximately 15 to 20 cubic yards. The newly applied stone occupies approximately 50 feet by 75 feet. The spill area is on the north-central portion of the site near the chain-link fence between the Central and Northern Sections.

CHEE notified Ms. Joan Murphy (site owner) on December 17, 1987 and December 18, 1987 of these observations. Ms. Murphy was never contacted by the North Suburban Transportation Company regarding this spill. On December 18, 1987, Ms. Murphy contacted representatives of the North Suburban Transportation Company to acquire the details of the spill and provide information relative to proper cleanup measures (not utilized by North Suburban Transportation). North Suburban reported to Ms. Murphy that 10 to 15 gallons of diesel fuel were released to the site. In addition, two 30-gallon garbage containers of contaminated soil/Speedi-Dri were removed from the site and transported (without proper manifesting) to the North Suburban Transportation Company garage in Woburn, Massachusetts. CHI offered to properly dispose these soils provided North Suburban returned the containers to the site; they did not respond to this offer.

Gasoline/Kerosene Spill - Site (Central Section)

During a visit by a CHEE representative on December 7, 1987, a gasoline or kerosene spill was noted. This spill area was wet and occupied approximately three feet in diameter on the northern-most portion of the Central Section of the site (near the gateway of the chain-link fence). Site representatives had no information regarding this spill.

Waste Oil Deposition - Site (Northern Section and Right-of-Way)

As evidenced in the 1966 aerial photograph (attached as Figure 6), waste oils were applied to site soils. The soil staining not only covered the area near the tanks on the Northern Section but also the right-of-way through the site from the Northern Section to Salem Street. The staining also extended to the land east of the tanks on the site.

Oil deposition to property soils and nearby roadways was a common practice prior to the 1980's for most waste oil facilities. In fact, in 1978, the DEQE - Division of Water Pollution Control implemented a policy limiting land spreading of waste oils to the period of May 15 to October 15. In the early 1980's, the DEQE - Division of Solid and Hazardous Waste was formed and, under their jurisdiction, this practice of oil deposition on land was prohibited. Ms. Joan Murphy (site owner) reported that this method of disposal by Murphy's Waste Oil Service, Inc. has not occurred since 1979. A copy of a letter from the DEQE - Division of Water Pollution Control to a nearby waste oil facility explaining these policy limitations is included in Appendix E.

Abandoned Drums - Wildwood Conservation Corporation Property

The US-EPA, the DEQE and City of Woburn Representatives have performed numerous investigations and property visits relative to dumping activities and extensive contamination of underlying soils and groundwater on this property.

In the late 1970's, representatives of the US-EPA and DEQE responded to a complaint of abandoned drums on this property. Upon inspection, an estimated 15 to 20 drums, 55-gallons in size, were abandoned on this property adjacent to the Boston and Maine railroad tracks. The drums were empty at the time of their inspection.

An investigation, conducted by Woodward-Clyde Consultants performed in 1984 as reported by the US-EPA, suggested that the Wildwood Conservation Company property (known then as the Beatrice Foods site) was used for storage of large tanks and perhaps drums. The report implied that the "two companies located south of the Wildwood Conservation Corporation property (sic): Whitney Barrell Company and Murphy Waste Oil" were the source of these large tanks and drums. This implication was based on review of historical aerial photography (1966 to 1983) from which the following was obtained:

"The existing unpaved access road was evident in past aerial photographs as were additional trails leading from both the Whitney Barrell and Murphy Waste Oil properties. Greater use of these trails was apparent from 1966 to 1969 than in 1978 to 1983."



Ms. Joan Murphy, site owner, reported that she remembered that those drums were there in the 1950's.

Diesel Fuel/Motor Oil/Waste Oils - Juniper Development Group

According to Fire Department records reviewed, activities occurring on the property in the summer of 1986 included the removal of three 30-year-old, 6,000-gallon underground storage tanks; one tank was observed leaking diesel fuel and product was observed on the groundwater in the excavated trench area. Installation of monitoring wells by an environmental consulting firm was subsequently required by the DEQE to assess the extent of contamination.

In the winter of 1987, a 1,000-gallon vertical aboveground storage tank exploded and released motor oil onto the property surface. In addition, Chief Doherty reported that a number of 55-gallon drums containing waste motor oil were observed leaking on the southern portion of the property.

The US-EPA issued an order in February 1986 for the Olympia Nominee Trust to "stabilize drums of hazardous waste at their Woburn, MA, property and to study the site to protect the public from the contaminants." "Trichloroethylene, tetrachloroethylene, 1,1-dichloroethane, 1,1,1-trichloroethane, toluenes, xylenes, polychlorinated biphenyl compounds (PCBs), and chlordane have been found in soil and drums at the site." The US-EPA discovered 12 exposed drums containing these materials in April 1985. As of February 1987, this property has been considered by the EPA as part of the Wells G & H Superfund Site in Woburn." Additional information relative to the Wells G & H Superfund Site is discussed in the section "US-EPA: Contamination of the Aberjona River Basin."

Unknown Chemical Releases - Former Whitney Barrell

Chief Robert Doherty of the City of Woburn Fire Prevention Department reported that within the past 20 years five chemical related fires occurred on this property. Chief Doherty additionally reported that a "colorful liquid" was released from the building during one of the more serious fires (which occurred between 1980 and 1982). Ms. Rodene DeRice of the DEQE Northeast Region stated that a Phase II - Full Evaluation study was recently completed for this property and that this report has not yet been reviewed by the DEQE.

DEPARTMENT OF ENVIRONMENTAL QUALITY ENGINEERING (NORTHEAST REGION) RECORDS RESEARCH

The Department of Environmental Quality Engineering (DEQE) Oil and Hazardous Material Incident Response, RCRA Generator and Site Assessment Files for the City of Woburn were reviewed by a CHEE representative on December 21, 1987 and October 14, 1988. A review of the DEQE Spills and Sites Databases, the DEQE List of Confirmed Disposal Sites and Locations to be

Investigated (dated October 15, 1988), and the RCRA Generator/Transporter List was additionally performed. Additional information relative to most of the following properties discussed is addressed in the section entitled **US-EPA: Contamination of the Aberjona River Basin.**

Wells G and H - Aberjona River Valley

Wells G and H are listed in the Sites Database, addressed Salem and Washington Streets, as Phase III project status and supervised by Ms. Rodene DeRice of the DEQE.

Aberjona Auto Parts - 278 Salem Street

This property is located approximately 500 feet east of and downgradient from the site. This property was listed in the Sites Database as "inactive." Additional information regarding the four monitoring wells installed on this property by the US-EPA relative to the US-EPA study area are further discussed in the section entitled **US-EPA: Contamination of the Aberjona River Basin.**

Whitney Barrell - 256 Salem Street

As previously mentioned, a Phase II - Full Evaluation report for this property has been submitted to the DEQE. According to Ms. Rodene Rice of the DEQE, this report has not yet been reviewed. In January 1986, an estimated 10 gallons of Number Two oil was released on this property. No additional information regarding cleanup of this release was found in DEQE records reviewed.

John J. Riley Tannery - 228 Salem Street

As previously discussed, this property abuts the site on the western side of the Boston and Maine railroad tracks. This property is listed on the Sites Database as "inactive." The Spills Database listed this property in December 1986 as having a 500-gallon Number Six fuel oil release occur on this property. Imperial Transportation was reported as the Responsible Party for this release.

Additional DEQE records available for this property included a Formal Report of Analysis for a composite of two samples of sludge collected from a catch basin located on this property. The catch basin is apparently located along the eastern boundary of the property near the railroad tracks. This sample was collected as a result of the DEQE inspection discussed in the preceding section entitled **Current and Historical Uses of Adjacent Properties.**



The sludge sample collected from the catch basin was laboratory analyzed for E.P. Toxicity eight priority pollutant metals plus hexavalent chromium. The sludge sample was apparently analyzed by the analytical laboratory as a water sample and compared with US-EPA Safe Drinking Water Act (SDWA) Maximum Contaminant Level (MCL) guidelines. The only metal detected was total chromium at a concentration of 2.3 parts per million (ppm). The MCL for that constituent is 5.0 ppm.

The purpose of performing an E.P. Toxicity test on the sludge sample was apparently to determine whether any of the priority pollutant metals were leaching from the pile of sludge deposited on the property boundary and migrating down the embankment toward the railroad tracks, where the John J. Riley production well No. 1 is situated. The DEQE files indicate that additional laboratory analyses were performed on the sludge sample but were not submitted to the DEQE since the DEQE had not requested it.

According to Ms. Rodene DeRice of the DEQE, the US-EPA is responsible for activities performed on this property since it is currently under investigation as a potential source to the contamination of the City wells G and H.

Wildwood Conservation Corporation - Off Olympia Avenue

This property abuts the site to the north. No additional information, especially with regard to the abandoned drums found on this property, was available in these references reviewed.

Juniper Development Group - 60 Olympia Avenue

Sixty Olympia Avenue is located approximately one-half mile northeast of and upgradient from the site. This property is currently owned by the Juniper Development Group which purchased the property in February 1985. This property has been listed on the DEQE List of Confirmed Disposal Sites and Locations to be Investigated. This lists a petroleum release for the Olympia Nominee Trust property located at 60 Olympia Avenue. The cleanup status is Phase II by the responsible party. The Spills Database listed this property in February 1986 as having twelve 55-gallon drums of waste oil abandoned on the property. No additional information regarding the release or any other activities on this property was found in DEQE files reviewed.

Abandoned Drums - Mishawum Road Property

In May 1979, 184 55-gallon drums containing polyurethane and toluene diisocyanate were found on a vacant lot, located approximately one and one-quarter miles north of and topographically upgradient from the site. The property is located on Mishawum Road and is owned by the Massachusetts Bay Transit

Authority (MBTA). The DEQE records reviewed indicate that: "The drums were removed by unknown parties during negotiations with the DEQE over removal of these drums. This incident prompted the DEQE to sample the nearest downgradient water supply, Woburn's municipal water supply from Wells G and H, as a precautionary measure." Additional information regarding this discovery is addressed in the section entitled **US-EPA: Contamination of the Aberjona River Basin.**

US-EPA: CONTAMINATION OF THE ABERJONA RIVER BASIN

As previously mentioned, the 184 drums of polyurethane and toluene diisocyanate found on the Mishawum Road property (May 1979) prompted DEQE to sample the nearest downgradient water supply, Woburn's municipal water supply Wells G and H, as a precautionary measure. Prior to this DEQE sampling program of Wells G and H, area residents often complained about the water quality in the wells. Apparently, the parameters tested indicated elevated levels of manganese and iron, which often result in an unpleasant taste and/or odor of the water. Since this data correlated with the complaints reported, no additional testing was performed.

During the DEQE sampling program of City wells G & H, elevated levels of chlorinated volatile organic compounds were detected. Based on the levels detected, both wells were subsequently shut down by Order of the US-EPA. Health risks relative to these levels detected were then assessed.

"During the mid to late 1970's, the local community became concerned over the incidence of child-hood leukemia, particularly in the Pine Street area of east Woburn. After DEQE detected volatile organic contamination in Wells G & H in 1979, some members of the local community suspected that the incidence of leukemia was linked to the possible exposure to volatile organic chemicals through the Wells G & H water supply. The Massachusetts Department of Public Health (MDPH) began investigating the problem in December 1979. A higher than expected rate of childhood leukemia was confirmed by the MDPH in April 1980."

In May 1982, "a number of citizens whose children had developed leukemia filed a civil lawsuit against two companies [W.R. Grace/Cryovac Division and Beatrice Foods (now known as the John J. Riley Tannery)] suspected of contributing contamination to Wells G and H." In April 1985, the same citizen's group brought civil lawsuits against a third company: Uni-first Corporation.

Investigation by the US-EPA revealed that two major Superfund Sites exist within the Aberjona River Basin: The Industriplex Site, approximately two miles north of and upgradient from the Murphy Waste Oil Service, Inc. property; and the Wells G and H Site (referred to in this report as the US-EPA study area).

This US-EPA study area is "geographically defined as the valley and surrounding uplands associated with the Aberjona River Basin (sic) south of Interstate 95 and north of Salem Street. The aquifer area is hydrologically defined as the area (vertically and laterally) that is potentially



capable of supplying water to Wells G & H under pumping conditions." The US-EPA study area is somewhat larger than the aquifer area and consists of approximately 450 acres.

The US-EPA developed a "Hazard Ranking System (HRS) score" for the US-EPA study area utilizing available preliminary investigations and analytical data provided by the DEQE. The US-EPA study area was ranked 312 out of 770 sites on the National Priorities List.

In May 1983, three Administrative Orders were issued by the US-EPA to W.R. Grace and Company, Inc. - Cryovac Division (located approximately one mile northeast of the site on the eastern side of the Aberjona River); Uni-first Corporation - formerly Interstate Uniform Services Corporation (located approximately one mile north of the site on the eastern side of the Aberjona River); and Beatrice Foods, Inc. - for the Wildwood Conservation Corporation property (abuts the northern site boundary and is on the western side of the Aberjona River).

From the late-1970's to present, the US-EPA has contracted numerous environmental consulting firms to perform assessment investigations of the US-EPA study area. These investigations not only included historical investigations and inspections of the US-EPA study area, but also groundwater, surface water and sediment sampling, and installation of groundwater monitoring wells throughout the US-EPA study area. The purpose of these investigations was to address the degree and extent of contamination existing within the US-EPA study area; contaminant pathways and mechanisms; and a description of groundwater plumes, areas of contamination and their sources.

John J. Riley Production Wells No. 1 and No. 2

Volatile organic contaminants present in the John J. Riley production wells No. 1 and No. 2 include low part per billion (ppb) concentrations of 1,1-dichloroethane, trans-1,2-dichloroethene, 1,1,1-trichloroethane, trichloroethene and tetrachloroethene.

Two of the 13 monitoring wells located on the Wildwood Conservation Corporation property (identified by the US-EPA as BW-3 and BW-4) were installed between the site boundary and the John J. Riley production well No. 2. Monitoring well BW-4 is situated approximately 15 feet north of the site boundary, while BW-3 is situated approximately 20 feet northeast of the site boundary. Total volatile organic compounds detected in these wells were between 11 ppb and 100 ppb in BW-4 and between 101 ppb and 500 ppb in BW-3. The predominant compounds detected include trichloroethene and tetrachloroethene; however, low levels of the compounds present in the John J. Riley production wells were also present in the groundwater samples of these monitoring wells.

US-EPA: REQUEST FOR INFORMATION

On December 31, 1987, the US-EPA issued a Request for Information for "certain activities occurring at Murphy's Waste Oil Service, Inc. (sic)" at 252 Rear Salem Street. The purpose of the Request was for the US-EPA to acquire additional information pursuant to the "source, extent and nature of the release or threatened release of hazardous substances, pollutants or contaminants, or hazardous wastes on or about the Wells G & H Superfund Site" (the US-EPA study area). This Request for Information was issued to the owners of all properties located within the one-square-mile US-EPA study area.



Wright and Moehrke Professional Corporation, Counselors at Law, responded to this Request for Information as representatives for Murphy's Waste Oil Service, Inc. The Response letter was submitted to the US-EPA on February 9, 1988.

SUMMARY AND EVALUATION

The site has primarily been used as a bulk oil storage facility from the 1920's to 1987. In March 1987, the 13 aboveground storage tanks were removed from the site for proper disposal; seven new, unused aboveground storage tanks remain on the site within a concrete-diked tank farm. Only one underground storage tank is present on the site and is used for storing heating oil for the on-site garage. The tank was installed in 1979.

Releases of petroleum products have historically occurred on the site. Known releases include:

- land spreading of oils on the site until 1979 for dust control measures (this was a DEQE approved method until, at least, 1979);
- a 150-gallon release of diesel fuel to surface soils on the central portion of the site in 1987 (cleanup measures by the responsible party (a site tenant) were unsatisfactorily performed);
- an unknown quantity of either diesel fuel or gasoline product on the central portion of the site in 1987 (since the bulk oil facility was inactive at that time the responsible party is most likely a site tenant);
- and the central portion of the site was apparently used in the 1950's as an "oil pit" (no further documentation or other reports were found to support this statement).

Abutting developed properties are occupied by a tannery, a former drum and tank reconditioning facility, a railroad line and residences. Since the late 1800's, the tannery has been manufacturing leather products. Historically, the manufacturing process involved chemical applications to the product in below ground pits. Apparently, groundwater was flushed through the pits for rinsing purposes. Waste disposal practices by the tannery included dumping some of the waste products and sludges on the property. It is possible that surface water runoff from this upgradient property may be contaminated and impact the site. Wastewater from the tannery is discharged to a sewer system which traverses a portion of the site. The sewer manhole cover on the site was once observed six feet above the ground surface from sewer overflow; sewer overflows have periodically occurred on the site.

The former drum and tank reconditioning facility apparently rinsed the residual oils and hazardous materials from the tanks and drums with a vinegar and/or solvent solution. The discharge point of the spent solution was not discovered during this investigation. The City of Woburn Fire Department reported that they had responded to several chemical-related fires on this property. One of the more serious fires involved a "colorful liquid" that was released from within the building. This property is currently under investigation by the DEQE for evidence of contamination. The Phase II - Full Evaluation report for this property was submitted to the DEQE for review in January 1989; the study has not yet been evaluated by the DEQE, or CHEE.



The site is situated within a US-EPA study area which encompasses one square mile. The US-EPA became involved in this area based on the levels of chlorinated solvent contamination encountered in two municipal drinking water wells. The wells are situated approximately one quarter of a mile from the site. Although the contamination was discovered in 1979 and the drinking water wells were deactivated, the source(s) of the contamination have not been verified.

It appears that a major contributing factor to the drinking water well contamination is the historical dumping activities on the 16-acre undeveloped property which abuts the northern site boundary. A series of subsurface investigations have been conducted on the property indicating elevated levels of chlorinated solvent contamination. Although this property is positioned hydrologically upgradient from the site, it is likely that most of the contamination in the groundwater is intercepted by pumping activities of a large production well on this property (300,000 gallons per day). During pumping activities of this well, groundwater flow patterns on the site are altered, thereby, making the tannery and the former tank and drum reconditioning properties hydrologically upgradient from the site. A City of Woburn official indicated that the tannery property was recently implicated by the US-EPA for contributing to the contamination of nearby drinking water wells.

CONCLUSIONS

Based on the findings of this investigation, it appears that the site may be contaminated from petroleum products as well as hazardous materials. The source of the petroleum contamination is most likely attributed to historical uses of the site by the bulk oil facility and a site tenant. The source of the non-petroleum contamination (including hazardous materials) is most likely from releases and discharges of these materials on the site and from off-site sources. Further investigation of the site soils and groundwater for evidence of contamination should be performed.

RECOMMENDATIONS

A Phase I - Site Investigation assessment should be conducted on the site. The subsurface investigation should be performed to evaluate petroleum and/or hazardous material contamination that may be present in site soils and groundwater. Investigation points should be positioned to assess: the extent of contamination present on the site from on-site uses of petroleum products; the impact on the site of releases of these materials on nearby properties; the impact of pumping activities on the site groundwater flow patterns by the nearby production well; and whether releases on the site migrated to off-site properties.

The Phase I - Site Investigation assessment should be modified to include the following:

1. Surface soil and surface water, if any, samples should be collected in the vicinity of the sewer easement which periodically overflowed tannery wastewater. The samples should be submitted for laboratory analysis for evidence of contamination.

2. An air-monitoring program for the site should be implemented to determine whether the air emissions from the tannery, which resemble hydrogen sulfide, are impacting the air quality on the site.
3. Review of the Phase II - Full Evaluation report for the abutting property, occupied by a former drum and tank reconditioning facility, should be performed prior to positioning the investigation points and implementing the sampling program. The sampling program for the site should coincide with the contaminants, if any, detected on this property.
4. The sampling program for the on-site investigation should coincide, at a minimum, with the parameters tested by the US-EPA for the contamination encountered on nearby properties and the drinking water supplies. Data from this modified program will be necessary in evaluating the on-site contaminants, if any, relative to the levels of contaminants in the drinking water supplies.
5. In accordance with the Massachusetts Contingency Plan (effective October 3, 1988) a Risk Assessment study should be performed on the site. The sampling parameters necessary for a full evaluation should be incorporated. This study is necessary to evaluate the potential risk to human and non-human receptors from contamination emanating from the site and nearby properties. A key member of the Risk Assessment staff has performed an extensive wetland assessment of the site area for the US-EPA.
6. The CHEE remedial staff should incorporate any sampling parameters or testing requirements in the event that a remedial cleanup program for the site should be necessary. Acquiring this data during the Phase I - Site Investigation assessment will allow the CHEE remedial staff to prepare an accurate and thorough proposal for expedient DEQE approval.

LIMITATIONS

This Preliminary Site Assessment report was conducted in accordance with the 1983 "Massachusetts Oil and Hazardous Material Release Prevention and Response Act," of the Massachusetts General Laws and the Massachusetts Contingency Plan, effective 1988. The DEQE Guidance Policy 7 (dated June 22, 1987) and the updated Interim Policy (dated December 22, 1987) were used as guidelines during this investigation.

The purpose of this report was to assess the physical characteristics of the site with respect to the presence of oil or hazardous materials, as defined in the Massachusetts General Law, Chapter 21E. The recommendations presented in the report were based solely upon the service described therein, and not on scientific tasks or procedures beyond the scope of the services described herein. This study and report have been prepared on behalf of and for the exclusive use of Clean Harbors, Inc. for use as an environmental evaluation of the site. No other warranty, expressed, written or implied, was made.



Murphy's Waste Oil Service, Inc.
January 16, 1989
Page 23

CHEE will prepare a proposal detailing the additional work recommended above. If there are any questions or additional information is required, please feel free to call (617) 849-1200.

Sincerely,

Sherri L. Walker
Senior Environmental Scientist

Joseph E. Higgins
Manager, Site Investigations

William J. St. Hilaire, P.E.
Vice President

mac/SLW:Disk 1
QC:WJH/JEH/BEC/CHK



LIST OF CONTACTS

1. Ms. Joan Murphy, Site Owner, Murphy's Waste Oil Service, Inc., Woburn,
2. Mr. Francis Ryan, Acting Health Agent and Chairman, Board of Health, City of Woburn
3. Chief Robert Doherty, Fire Prevention Officer, City of Woburn Fire Department
4. Ms. Lee Garvey, Clerk, City of Woburn Conservation Commission
5. Ms. Carrol Cogan, Clerk, Engineering Department, City of Woburn
6. Mr. Robert Simonds, Superintendent, City of Woburn Public Works Department
7. Mr. Robert Cleary, Environmental Engineer, Department of Environmental Quality Engineering - Division of Hazardous Waste, Boston, Massachusetts
8. Ms. Rodene DeRice, Environmental Engineer, Department of Environmental Quality Engineering - Division of Hazardous Waste, Region I, Woburn, Massachusetts
9. Mr. David Diorio, Owner of Diorio Auto Service (employed in site area), Woburn, Massachusetts
10. Mr. Norman Saunders, General Manager and Site Area Occupant, Aberjona Auto Parts, Woburn, Massachusetts
11. Ms. Gretchen Latowsky, President, For A Cleaner Environment (FACE), a hazardous waste awareness community organization, Woburn, Massachusetts
12. Mr. Kingsley Ndi, Environmental Engineer, Department of Environmental Quality Engineering - Hazardous Waste Division, Region I, Woburn, Massachusetts
13. Ms. Barbara Newman, Project Manager, United States- Environmental Protection Agency, Boston, Massachusetts
14. Ms. Mary Quinn, Family Relative of the Murphy's and former Site Occupant, Westford, Massachusetts



LIST OF REFERENCES

1. Assessor's Field Cards, City of Woburn Assessor's Office
2. Building Permits, City of Woburn Building Department
3. Property Files, Board of Health, City of Woburn
4. Assessor's Property Maps, (Maps 16 and 21), dated January 1985, City of Woburn Engineering Department
5. "Flammable Masters Only" Certificates of Registration, City of Woburn City Clerk's Office
6. Certificates of Registration and Property Files, Fire Prevention Office, City of Woburn Fire Department
7. City of Woburn Zoning Map, effective date April 1985, City of Woburn Department of Public Works - Engineering Division
8. Aerial Photograph taken in March 1986 by City of Woburn Engineering Department, City of Woburn Engineering Department
9. Aerial Photograph taken in April 1966 by City of Woburn Engineering Department, City of Woburn Engineering Department
10. Sewer Locations Map, dated July 1980, City of Woburn Engineering Department
11. "An Introduction to Wetlands Regulation in Woburn," undated, City of Woburn Conservation Commission
12. "Woburn's Water Supply - The Facts of Woburn's Public Water Supply," dated June 1984, prepared by the Metropolitan Area Planning Council for the City of Woburn Conservation Commission
13. "An Introduction to Conservation Areas in Woburn, Massachusetts," undated, prepared by the City of Woburn Conservation Commission
14. Woburn and Winchester Directories, dates 1897, 1911, 1919- 1920, and 1925, available at the City of Woburn Public Library
15. City of Woburn Atlas, dated 1875, available at the City of Woburn Public Library
16. "The Woburn Health Study: Synopsis (with errata corrected)," undated, prepared by S.E. Lagakos, B.J. Wessen, M. Zelen, available at the City of Woburn Public Library



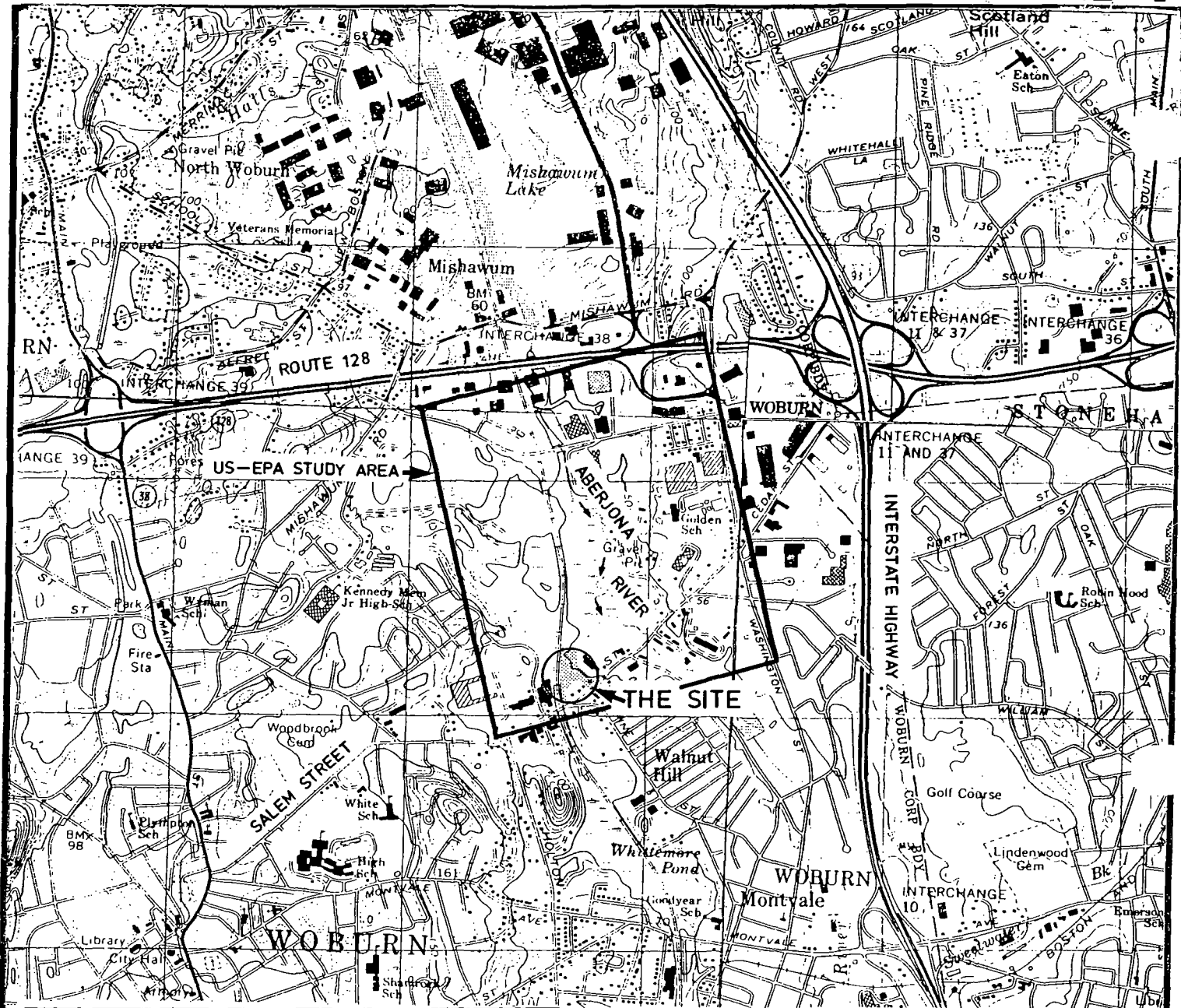
LIST OF REFERENCES (Cont.)

17. City of Woburn Daily Times Chronicle, dated February 6, 1968, available at the City of Woburn Public Library
18. "History of the Tanning Industry in Woburn," Shoe and Leather Reporter, dated May 20, 1920, pg.67, available at the City of Woburn Public Library
19. "Former Tanneries in Woburn and Vicinity," dated February 26, 1938, prepared by Thomas Marrinan, available at the City of Woburn Public Library
20. City of Woburn Atlas, dated 1950, available at the City of Woburn Public Library
21. "Plan for Investigation of Hazardous Waste Problems: Woburn, MA," dated March 1980, prepared by Fred C. Hart Associates, Inc. of New York, New York, available at the City of Woburn Public Library
22. City of Woburn Atlas, dated 1889, available at the City of Woburn Public Library
23. "Hazardous Wastes in Woburn - Department of Urban and Environmental Quality," dated May 1980, prepared by Tufts University, pg. 32, available at the City of Woburn Public Library
24. City of Woburn Oils and Hazardous Materials Incident Response, RCRA Generator and Site Assessment Files, **Spills Database** (dated 07/09/88), **Sites Database** (dated 07/07/88), Department of Environmental Quality Engineering, Northeast Region, Woburn, Massachusetts
25. **List of Confirmed Disposal Sites and Locations to be Investigated**, prepared by the Department of Environmental Quality Engineering Division of Hazardous Waste, dated October 15, 1988
26. **Industrial Water Pollution - Origins, Characteristics, and Treatment**, dated 1977, by Nelson L. Nemerow of Syracuse University, pgs. 334-340
27. "Woburn Administrative Order Docket No. 619," dated May 12, 1986, from the DEQE - Division of Water Pollution Control, available at the City of Woburn Building Department
28. US-EPA **Environmental News**, 12/16/85, 02/10/86, 02/18/87
29. **Area of Influence and Zone of Contribution to Superfund-Site Wells G and H**, dated 1987, prepared by the United States Geological Survey for the US-EPA, Water-Resources Investigations Report 87-4100
30. **Scope of Work for a Remedial Investigation at Wells G & H Site, Woburn, Massachusetts**, dated August 2, 1984, prepared by the NUS Corporation - Superfund Division for the Region I US-EPA

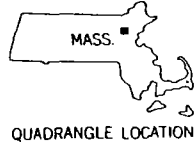
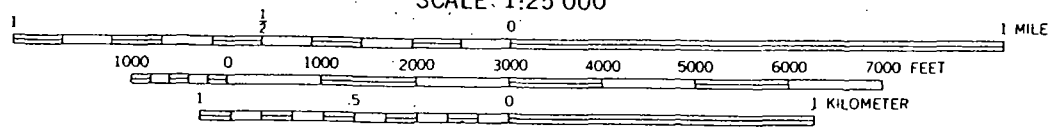


LIST OF REFERENCES (Cont.)

31. **Wells G & H Site Remedial Investigation Report, Part I, Woburn, Massachusetts, Volumes I - V, dated October 17, 1986, prepared by the NUS Corporation - Superfund Division for the Region I US-EPA**
32. **United States Geological Survey Topographic Map, Wilmington, Massachusetts Quadrangle (dated 1965, revised 1979) and Lexington, Massachusetts Quadrangle (dated 1971)**
33. **"Response to US-EPA Request for Information," dated February 9, 1988, prepared by Rebecca Backman of Wright & Moehrke of Boston, Massachusetts for Murphy's Waste Oil Services, Inc. and submitted to the US-EPA - Massachusetts Waste Management Section, Waste Management Division**



SCALE 1:25 000



QUADRANGLE LOCATION

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



COORDINATES
UTM: 324682mE, 4706254mN
LONGITUDE: 71°8'0"W
LATITUDE: 42°29'18"N

ISSUE	DESCRIPTION	DRWN	CHKD	APPR	DATE
		KMG	GM	GM	1/31/94

CleanHarbors
ENVIRONMENTAL ENGINEERING CORPORATION

325 Wood Road
Braintree, Massachusetts 02184
Telephone (617) 849-1200

MURPHY'S WASTE OIL SERVICE, INC.
252 AND 252 REAR SALEM STREET
WOBBURN, MASSACHUSETTS

LOCUS MAP

PROJECT NO.	E-1656	DWG. NO.	1656-L-001
SCALE	AS NOTED		

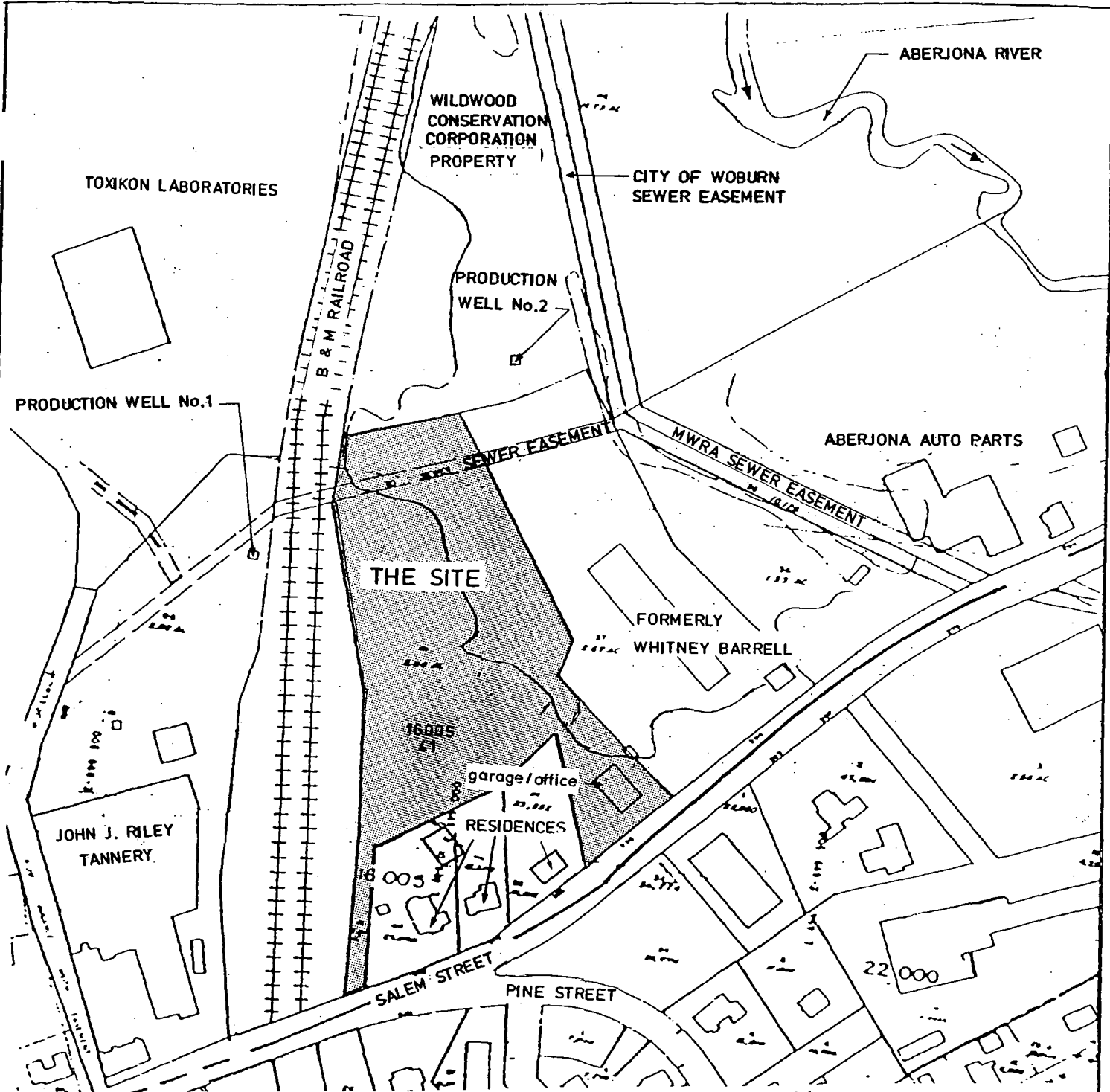


FIGURE 4 SITE AND ADJACENT PROPERTIES



CleanHarbors
ENVIRONMENTAL ENGINEERING CORPORATION

323 Wood Road
Braintree, Massachusetts 02184
Telephone (617) 849-1208

PROJECT NO. E - 1656

SCALE 1" = 200'

MURPHY'S WASTE OIL SERVICE, INC.

252 AND 252 REAR SALEM STREET

WOBURN, MASSACHUSETTS

DRAWING NO.

**Organization of
Murphy's Waste Oil Service, Inc.**

January 12, 1972

EXHIBIT C-2
The Commonwealth of Massachusetts

KEVIN H. WHITE
Secretary of the Commonwealth
STATE HOUSE
BOSTON, MASS.

ARTICLES OF ORGANIZATION
(Under G.L. Ch. 156B)

NAME

(including given name in full)

POST OFFICE ADDRESS

We, John F. Murphy
Joan E. Murphy

16 Harriet Avenue, Burlington, Mass.
16 Harriet Avenue, Burlington, Mass.

do hereby associate ourselves as incorporators with the intention of forming a corporation under the provisions of General Laws, Chapter 156B.

1. The name by which the corporation shall be known is:

Murphy's Waste Oil Service Inc.

2. The purposes for which the corporation is formed are as follows:

To remove, carry and hold for resale oil and waste oil and any other incidental to the buying and selling of oil and waste oil and to do all things permissible under the provisions of Chapter 156B of the General Laws of Massachusetts.

NOTE: If provisions for which the space provided under Articles 2, 4, 5 and 6 is not sufficient, the provision should be set out on continuation sheets to be numbered 2A, 2B, etc. Indicate under each Article the provision is set out. Continuation sheets shall be on 8 1/2" x 11" paper and must have a left-hand margin 1 inch wide for binding. Only one side should be used.

8032-0089

3. The total number of shares and the par value, if any, of each class of stock which the corporation is authorized to issue is as follows:

CLASS OF STOCK	WITHOUT PAR VALUE	WITH PAR VALUE		
	NUMBER OF SHARES	NUMBER OF SHARES	VALUE	AMOUNT
Preferred				\$
Common	1,000			

4. If more than one class is authorized, a description of each of the different classes of stock with, if any, the preferences, voting powers, qualifications, special or relative rights or privileges as to each class thereof and any series now established:

None

5. The restrictions, if any, imposed by the Articles of Organization upon the transfer of shares of stock of any class are as follows:

See 5A

6. Other lawful provisions, if any, for the conduct and regulation of the business and affairs of the corporation, for its voluntary dissolution, or for limiting, defining, or regulating the powers of the corporation, or of its directors or stockholders, or of any class of stockholders:

None

3A

Any stockholder, including the heirs, assigns, executors, or administrators of a deceased stockholder, desiring to sell or transfer such stock owned by him or them, shall first offer it to the corporation through the Board of Directors in the manner following:

He shall notify the directors of his desire to sell or transfer by notice in writing, which notice shall contain the price at which he is willing to sell or transfer and the name of one arbitrator. The directors shall within thirty days thereafter, either accept the offer, or by notice to him in writing, name a second arbitrator, and these two shall name a third. It shall then be the duty of the arbitrators to ascertain the value of the stock and, if any arbitrator shall neglect or refuse to appear at any meeting appointed by the arbitrators, a majority may act in the absence of such arbitrator.

After the acceptance of the offer, or the report of the arbitrator as to the value of the stock, the directors shall have thirty days within which to purchase the same at such valuation, but, if at the expiration of thirty days, the corporation shall not have exercised the right so to purchase, the owner of the stock shall be at liberty to dispose of the same in any manner it may see fit.

No shares of stock shall be sold or transferred on the books of the corporation until these provisions have been complied with, but the Board of Directors may in any particular instance waive the requirement.

7. The first meeting of the incorporators was duly held on the 29 day of December, 19 71 at which by-laws of the corporation were duly adopted and at which the initial directors, president, treasurer and clerk, whose names are set out below, were duly elected.

8. The following information shall not for any purpose be treated as a permanent part of the Organization of the corporation.

a. The post office address of the initial principal office of the corporation in Massachusetts is:

16 Harriet Avenue, Burlington, Massachusetts

b. The name, residence, and post office address of each of the initial directors and following officers of the corporation elected at the first meeting are as follows:

	NAME	RESIDENCE	POST OFFICE ADDRESS
President:	John F. Murphy	16 Harriet Avenue Burlington, Massachusetts	Same
& Treasurer:			
Clerk:	Joan E. Murphy	16 Harriet Avenue Burlington, Massachusetts	Same
Directors:	John F. Murphy Joan E. Murphy William F. Murphy		

c. The date initially adopted on which the corporation's fiscal year ends is:

September 30, 1972

d. The date initially fixed in the by-laws for the annual meeting of stockholders of the corporation is:

First Tuesday of October

a. The name and business address of the registered agent, if any, of the corporation are:

None

IN WITNESS WHEREOF, and under the penalties of perjury, we, the above-named INCORPORATORS, hereto sign our names, this 10th day of January 19 72

John F. Murphy
Joan E. Murphy

RECEIVED

THE COMMONWEALTH OF MASSACHUSETTS

SECRETARY'S OFFICE

ARTICLES OF ORGANIZATION
GENERAL LAWS, CHAPTER 158B, SECTION 12

I hereby certify that, upon an examination of the within-written articles of organization, duly submitted to me, it appears that the provisions of the General Laws relative to the organization of corporations have been complied with, and I hereby approve said articles; and the filing fee in the amount of \$²⁵ 12⁰⁰ having been paid, said articles are deemed to have been filed with me this

January 1972. 12th day of

John F. Davenport

Secretary of the Commonwealth

TO BE FILLED IN BY CORPORATION

PHOTO COPY OF ARTICLES OF ORGANIZATION TO BE SENT

TO:

C. David Sullivan, Esquire

One Hyman Street

Burlington, Massachusetts 01803

646-8150
FILING FEE: 1/20 of 1% of the total amount of the authorized capital stock with par value, and one cent a share for all authorized shares without par value, but not less than \$75. General Laws, Chapter 158B.

Copy Mailed

5
8032-0093

**Organization of
Clean Harbors, Inc.**

March 24, 1980

The Commonwealth of Massachusetts

MICHAEL JOSEPH CONNOLLY

Secretary of State

ONE ASHBURTON PLACE, BOSTON, MASS. 02108

ARTICLES OF ORGANIZATION

(Under G.L. Ch. 156B)

Incorporators

NAME

POST OFFICE ADDRESS

Include given name in full in case of natural persons; in case of a corporation, give state of incorporation.

Alan S. McKim

9 Surrey Lane
Kingston, Massachusetts

The above-named incorporator(s) do hereby associate (themselves) with the intention of forming a corporation under the provisions of General Laws, Chapter 156B and hereby state(s):

1. The name by which the corporation shall be known is:

Clean Harbors, Inc. ✓

2. The purposes for which the corporation is formed are as follows:

To engage in all matters relating to pollution control and oil spills and contamination in particular, to do research in and manufacture and distribute products and services in the pollution control field to perform all acts connected therewith or arising therefrom as incidental thereto and all acts proper or necessary for the purposes of the business.

To borrow money and pledge the assets for the business. To acquire by purchase, subscription or otherwise, and to own, hold, sell, negotiate, assign, deal in, exchange, transfer, mortgage, pledge or otherwise dispose of any shares of the capital stock or any bonds, mortgages, securities, or evidence of indebtedness, issued or created by any other corporation, trust, association, or individual, public or private. To conduct any business permitted to business corporations under Chapter 156B of the General Laws of the Commonwealth of Massachusetts.

80-684022

NOTE: If provisions for which the space provided under Articles 2, 4, 5 and 6 is not sufficient, additions should be set out on continuation sheets to be numbered 2A, 2B, etc. Indicate under each Article where the provision is set out. Continuation sheets shall be on 1 1/2" x 11" paper and must have a left-hand margin 1 inch wide for binding. Only one side should be used.

3. The total number of shares and the par value, if any, of each class of stock which the corporation is authorized is as follows:

CLASS OF STOCK	WITHOUT PAR VALUE	WITH PAR VALUE		
	NUMBER OF SHARES	NUMBER OF SHARES	PAR VALUE	AMOUNT
Preferred				
Common	12,500			

4. If more than one class is authorized, a description of each of the different classes of stock with, if any, the preferences, voting powers, qualifications, special or relative rights or privileges as to each class thereof and any series now established:

NONE

5. The restrictions, if any, imposed by the Articles of Organization upon the transfer of shares of stock of any class are as follows:

See Page 5A Attached Hereto

6. Other lawful provisions, if any, for the conduct and regulation of the business and affairs of the corporation, for its voluntary dissolution, or for limiting, defining, or regulating the powers of the corporation, or of its directors or stockholders, or of any class of stockholders:

See Page 6A Attached Hereto

If there are no provisions state "None".

Any stockholder, including the heirs, assigns, executors, or administrators of a deceased stockholder, desiring to sell or transfer such stock owned by him or them, shall first offer it to the corporation through the Board of Directors, in the manner following:

He shall notify the directors of his desire to sell or transfer by notice in writing, which notice shall contain the price at which he is willing to sell or transfer, and the name of one arbitrator. The directors shall within thirty days thereafter either accept the offer, or by notice to him in writing, name a second arbitrator, and these two shall name a third. It shall then be the duty of the arbitrators to ascertain the value of the stock, and if any arbitrator shall neglect or refuse to appear at any meeting appointed by the arbitrators, a majority may act in the absence of such arbitrator.

After the acceptance of the offer, or the report of the arbitrators as to the value of the stock, the directors shall have thirty days within which to purchase the same at such valuation, but if at the expiration of thirty days, the corporation shall not have exercised the right so to purchase, the owner of the stock shall be at liberty to dispose of the same in any manner he may see fit.

No shares of stock shall be sold or transferred on the books of the corporation until these provisions have been complied with, but the Board of Directors may in any particular instance waive the requirement.

7. By-laws of the corporation have been duly adopted and the initial directors, president, treasurer and clerk, whose names are set out below, have been duly elected.
8. The effective date of organization of the corporation shall be the date of filing with the Secretary of the Commonwealth or if later date is desired, specify date, (not more than 30 days after date of filing.)
9. The following information shall not for any purpose be treated as a permanent part of the Articles of Organization of the corporation.
- a. The post office address of the initial principal office of the corporation in Massachusetts is;
118 Monroe Street, Abington, Massachusetts
- b. The name, residence, and post office address of each of the initial directors and following officers of the corporation are as follows:

	NAME	RESIDENCE	POST OFFICE ADDRESS
President:	Alan S. McKim	9 Surrey Lane Kingston, MA 02364	Same
Treasurer:	Alan S. McKim	9 Surrey Lane Kingston, MA 02364	Same
Clerk:	Deborah M. McKim	9 Surrey Lane Kingston, MA 02364	Same
Directors:	Alan S. McKim	9 Surrey Lane Kingston, MA 02364	Same
	Deborah M. McKim	9 Surrey Lane Kingston, MA 02364	Same

- c. The date initially adopted on which the corporation's fiscal year ends is:
February 28
- d. The date initially fixed in the by-laws for the annual meeting of stockholders of the corporation is:
Third Tuesday in March
- e. The name and business address of the resident agent, if any, of the corporation is:

IN WITNESS WHEREOF and under the penalties of perjury the above-named INCORPORATOR(S) sign(s) these Articles of Organization this 24th day of March 19 80

Alan S. McKim

The signature of each incorporator which is not a natural person must be by an individual who shall show the capacity in which he acts and by signing shall represent under the penalties of perjury that he is duly authorized on its behalf to sign these Articles of Organization.

Name Change

From: Clean Harbors, Inc.

To: Clean Harbors of Kingston, Inc.

February 3, 1986

The Commonwealth of Massachusetts

OFFICE OF THE MASSACHUSETTS SECRETARY OF STATE

MICHAEL JOSEPH CONNOLLY, Secretary

FEDERAL IDENTIFICATION

ONE ASHBURTON PLACE, BOSTON, MASS. 02108 NO. 04-2698999

ARTICLES OF AMENDMENT

General Laws, Chapter 156B, Section 72.

This certificate must be submitted to the Secretary of the Commonwealth within sixty days after the date of the vote of stockholders adopting the amendment. The fee for filing this certificate is prescribed by General Laws, Chapter 156B, Section 114. Make check payable to the Commonwealth of Massachusetts.

We, Alan S. McKim
C, Michael Malm

, President/Vice President, and
, Clerk/Assistant Clerk of

CLEAN HARBORS, INC.

(Name of Corporation)

located at 100 Joseph Street, Kingston, MA 02364

do hereby certify that the following amendment to the articles of organization of the corporation was duly adopted at a meeting held on January 29, 1986, by ~~unanimous~~ unanimous vote of

100 shares of common stock out of 100 shares outstanding.

(Class of Stock)

shares of out of shares outstanding, and

(Class of Stock)

shares of out of shares outstanding,

(Class of Stock)

all being at least a majority of each class outstanding and entitled to vote thereon.

CROSS OUT

INAPPLICABLE

CLAUSE

of each class or series of stock whose rights are adversely affected thereby.

C ☐
P ☐
M ☐

*For amendments adopted pursuant to Chapter 156B, Section 70.

*For amendments adopted pursuant to Chapter 156B, Section 71.

Note: If the space provided under any Amendment or item on this form is insufficient, additions shall be set forth on separate 8 1/2 x 11 sheets of paper leaving a left hand margin of at least 1 inch for binding. Additions to more than one Amendment may be continued on a single sheet so long as each Amendment requiring each such addition is clearly indicated.

P.C.

TO CHANGE the number of shares and the par value, if any, of each class of stock within the corporation fill in the following:

The total presently authorized is:

KIND OF STOCK	NO PAR VALUE NUMBER OF SHARES	WITH PAR VALUE NUMBER OF SHARES	PAR VALUE
COMMON			
PREFERRED			

CHANGE the total to:

KIND OF STOCK	NO PAR VALUE NUMBER OF SHARES	WITH PAR VALUE NUMBER OF SHARES	PAR VALUE
COMMON			
PREFERRED			

Article 1. of the Articles of Organization of the Corporation be and hereby is ammended to read as follows:

- "1. The name by which the Corporation shall be known is:
CLEAN HARBOKS OF KINGSTON, INC."

The foregoing amendment will become effective when these articles of amendment are filed in accordance with Chapter 156B, Section 8 of The General Laws unless these articles specify, in accordance with the vote adopting the amendment, a later effective date not more than thirty days after such filing, in which event the amendment will become effective on such later date.

IN WITNESS WHEREOF AND UNDER THE PENALTIES OF PERJURY, we have hereto signed our names this

30th

day of January

, in the year 19 86

Alan S. McKim

C. Michael

President/Vice President

Clerk/Assistant Clerk

69661

1122

RECEIVED
1935 JUN 31 5 00 PM
CORPORATION DIVISION

THE COMMONWEALTH OF MASSACHUSETTS

ARTICLES OF AMENDMENT

(General Laws, Chapter 156B, Section 72)

I hereby approve the within articles of amendment
and, the filing fee in the amount of \$75.00
having been paid, said articles are deemed to have
been filed with me this 3rd
day of February . 1936 .

Michael Joseph Connolly
MICHAEL JOSEPH CONNOLLY
Secretary of State

TO BE FILLED IN BY CORPORATION
PHOTO COPY OF AMENDMENT TO BE SENT

TO: C. Michael Malm, Esq.
..... Davis, Malm & D'Agostine
One Boston Place
.....
Boston, Massachusetts 02108
.....
Telephone (617) 367-2500

City Marked

Organization of
Clean Harbors, Inc. as a holding company
Establishing Clean Harbors of Kingston, Inc. as
a wholly owned subsidiary

February 27, 1987

(supporting documents not available from the
Secretary of State; supporting documentation
provided in 104e response)



**The Commonwealth of Massachusetts
William Francis Galvin**

Secretary of the Commonwealth
One Ashburton Place, Boston, Massachusetts 02108-1512
Telephone: (617) 727-9640

CLEAN HARBORS, INC. Summary Screen



Help with this form

Request a Certificate

The exact name of the Domestic Profit Corporation: CLEAN HARBORS, INC.

Merged into CLEAN HARBORS OF CLEVELAND, INC. on 2/1/97

Merged into CLEAN HARBORS OF CLEVELAND, INC. on 2/1/97

Entity Type: Domestic Profit Corporation

Identification Number: 042997780

Old Federal Employer Identification Number (Old FEIN): 000251995

Date of Organization in Massachusetts: 02/27/1987

Current Fiscal Month / Day: 12 / 31

Previous Fiscal Month / Day: 02 / 28

The location of its principal office in Massachusetts:

No. and Street: P. O. BOX 850327

1501 WASHINGTON ST.

City or Town: BRAINTREE

State: MA

Zip: 02185

Country: USA

If the business entity is organized wholly to do business outside Massachusetts, the location of that office:

No. and Street:

City or Town:

State:

Zip:

Country:

The name and address of the Registered Agent:

Name:

No. and Street:

City or Town:

State:

Zip:

Country:

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	Expiration of Term
PRESIDENT	ALAN S. MCKIM	1501 WASHINGTON ST., BRAINTREE, MA 02185 USA 1501 WASHINGTON ST., BRAINTREE, MA 02185 USA	
TREASURER	CARL PASCHETAG	1501 WASHINGTON ST., BRAINTREE, MA 02185 USA 1501 WASHINGTON ST., BRAINTREE, MA 02185 USA	
SECRETARY	CT CORPORATION SYSTEMS	101 FEDERAL STREET,	

BOSTON, MA 02110 USA
101 FEDERAL STREET,
BOSTON, MA 02110 USA

business entity stock is publicly traded: ☒

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding
		<i>Num of Shares</i>	<i>Total Par Value</i>	
No Stock Information available online. Prior to August 27, 2001, records can be obtained on microfilm.				

☐ Consent ☐ Manufacturer ☐ Confidential Data ☐ Does Not Require Annual Report
☐ Partnership ☐ Resident Agent ☐ For Profit ☐ Merger Allowed

Select a type of filing from below to view this business entity filings:

ALL FILINGS
Administrative Dissolution
Annual Report
Application for Reinstatement
Application For Revival

View Filings

New Search

Comments

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Help

CLEAN HARBORS, INC. AND SUBSIDIARIES

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

(1) OPERATIONS AND REORGANIZATION

Clean Harbors, Inc. (the Company) and its wholly-owned subsidiaries are engaged in the business of hazardous waste management, environmental remediation and analytical and engineering services.

On February 28, 1987, Clean Harbors, Inc. was created, and a tax-free reorganization was effected under Section 351 of the Internal Revenue Code. The reorganization has been recorded as a combination of entities under common control by combining the historical net book values of assets, liabilities and retained earnings. The accompanying consolidated financial statements reflect this reorganization retroactively for all periods presented.

(3) SIGNIFICANT ACCOUNTING POLICIES

The accompanying consolidated financial statements of the Company reflect the application of certain significant accounting policies as described below:

(a) Principles of Consolidation

The accompanying consolidated statements include the accounts of Clean Harbors, Inc. and its wholly-owned subsidiaries. All material intercompany accounts and transactions have been eliminated in consolidation.

(b) Depreciation and Amortization

The Company provides for depreciation and amortization using the straight-line and double declining balance methods, charging to income amounts to allocate the cost of property, plant and equipment over their estimated useful lives as follows:

<u>Asset Classification</u>	<u>Estimated Useful Life</u>
Buildings and improvements	15-30 years
Vehicles and equipment	3-8 years
Furniture and fixtures	5-8 years

(c) Revenue Recognition

The Company recognizes disposal revenues and the related cost of revenues upon the receipt of hazardous waste materials. Other revenues are recognized as related costs are incurred.

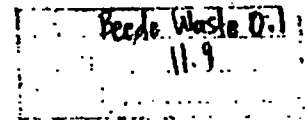
(d) Income Taxes

The Company adopted, effective March 1, 1988, the Statement of Financial Accounting Standards (SFAS) No. 96, "Accounting for Income Taxes." Under the liability method specified by SFAS 96, the deferred tax liability is determined based upon the difference between the financial statement and tax bases of assets and liabilities as measured by the enacted tax rates which will be in effect when these differences reverse. Deferred tax expense is the result of changes in the liability for deferred taxes. The principal types of differences between assets and liabilities for financial statement and tax return purposes are accumulated depreciation, business combinations accounted for by the purchase method, provisions for doubtful accounts and prepaid site closure costs. The deferred tax liability is reduced by net operating losses being carried forward for tax purposes.

The effect of the change from the deferred method to the liability method of accounting for income taxes was not material to the Company's financial position or results of operations.

Tax credits are accounted for by the flow-through method, recognizing the benefit of the credit for financial reporting purposes when the credit is realized for tax purposes.

RESPONSE TO QUESTION NO. 5.c



**CORPORATE HISTORY OF
CLEAN HARBORS, INC. AND ITS SUBSIDIARIES**

1. CLEAN HARBORS, INC.

- A. Company was formed as a holding company on February 27, 1987.
- B. On February 27, 1987, through a reorganization, Neal C. Srobrah, Inc., a newly formed wholly-owned subsidiary of Clean Harbors, Inc., was merged into Clean Harbors of Kingston, Inc. (the original Clean Harbors operating company which is now Clean Harbors Environmental Services, Inc.), and Clean Harbors, Inc. became the owner of all of the issued and outstanding stock of Clean Harbors of Kingston, Inc.

2. CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. ("CHESI")

- A. Company was organized 3/24/80 under the name Clean Harbors, Inc. The name was changed to Clean Harbors of Kingston, Inc. on 2/3/86 and further changed to Clean Harbors Environmental Services, Inc. on 12/31/92.
- B. On 12/31/92 the following wholly-owned subsidiaries of Clean Harbors, Inc. were merged into CHESI:

CORPORATION	STATE OF INCORPORATION
Clean Harbors of Kingston, Inc.	Massachusetts
Clean Harbors Analytical Services	Massachusetts
Clean Harbors of Maine, Inc.	Maine
General Welding & Design, Inc.	Massachusetts
CHI Realty Corporation	Massachusetts
Clean Harbors Environmental Services Companies, Inc.	Massachusetts

- C. On 2/1/97 Clean Harbors Technology Corporation, a Massachusetts corporation, was merged into CHESI.

Purchase of
Murphy's Waste Oil Service, Inc.

By
Clean Harbors of Kingston, Inc.

February 8, 1989

EXHIBIT O-1
DAVIS, MALM & D'AGOSTINE
ONE BOSTON PLACE
BOSTON, MASSACHUSETTS 02108
(617) 367-2300

JAMES J. D'AGOSTINE
MICHAEL MALM
CHARLES CORBIN, P.C.
WALDO R. DAVIS, P.C.
PETER MYERSON
BRUCE S. DANIELS
FRANK R. CORBIN
WILLIAM F. GRIFFIN, JR.
PAUL LEVINSOHN
ELLIOTT J. MAHLER
ROBERT C. BERNARD, P.C.
JOHN E. BERNARD
DART E. NATHAN
JUDITH AUSTON
JOHN F. LYNN
GROVER S. FARMELL, JR.

ROBERT J. SALVIN
RICHARD A. HUNTER, JR.
CAROL S. CORBIN
HOWARD P. SPEICHER
CLAUDE S. MICHELYAT
PAUL L. FELDMAN
CHARLES S. BANCOURT
GEORGE A. HEWETT
CHARLES S. ADAMS
BRUCE S. DIVISON
NANCY S. WALSH
THOMAS A. CORBIN
KEVIN S. HERN
ELEANOR H. LADD
ROBERT J. DETHMICH
MADELYN J. CARPANA

TELESCOPE 417 333 0211
CABLE ADDRESS CANADA
CALVIN H. BOWMAN
OF COUNSEL

February 8, 1989

John F. Murphy
Joan E. Murphy
16 Harriet Avenue
Burlington, MA 01803

Dear Sir and Madam:

We have acted as counsel to Clean Harbors of Kingston, Inc. ("Buyer"), a Massachusetts corporation, in connection with a certain Stock Purchase Agreement of even date herewith (the "Agreement") by and among John F. Murphy and Joan E. Murphy ("Sellers") and Buyer, under the terms of which Buyer is to acquire from Sellers all of the issued and outstanding stock of Murphy's Waste Oil Service, Inc.

In rendering this opinion, we have examined the Agreement and related instruments and documents (collectively the "Documents"). We have also examined such certificates of public officials and such other documents, records and instruments as we have deemed relevant and necessary as a basis for the opinion set forth below. We have relied upon certificates of public officials and upon representations of the president of Buyer with respect to the accuracy of certain factual matters contained in such certificates.

In making such examination, we have assumed the genuineness of all signatures and the authenticity of all documents submitted to us as originals and the conformity to original documents of all documents submitted to us as copies, whether certified or not.

The opinions hereinafter expressed are qualified to the extent that the validity of or enforceability of any provisions of the Documents is subject to the exercise of judicial discretion in accordance with general equitable principles and to applicable bankruptcy, insolvency, reorganization, moratorium and other laws for the relief of debtors heretofore or hereafter executed to the extent that the same may be constitutionally applied; antitrust or banking laws; the rights of Buyer under

8032-0111

Massachusetts General Law, Chapter 106, or any determination that the terms thereof are unconscionable and/or void as against public policy.

Based upon the foregoing, and subject to the foregoing qualifications, it is our opinion that:

1. Buyer is a corporation duly incorporated, validly existing and in good standing under the laws of the Commonwealth of Massachusetts;
2. The Documents have been duly authorized by all requisite corporate action of Buyer, have been duly executed and delivered thereby and constitute the valid and binding obligations of Buyer, enforceable in accordance with their terms.

Very truly yours,

DAVIS, MALM & D'AGOSTINE

By: C. Michael Malm, Partner

Edward S. Guidoboni
Attorney at Law

P.O. Box 100
1765 Main Street
Concord, Massachusetts 01742
Telephone (508) 365-0000

February 17, 1989

Alan McKim, President
Clean Harbors, Inc.
325 Wood Road
Braintree, Massachusetts 02184

Re: Stock Purchase
Murphy's Waste Oil Service, Inc.

Dear Sir:

I have acted as counsel for Murphy's Waste Oil Service, Inc., of Burlington, Massachusetts in connection with the above referenced and other related matters completed on February 8, 1989.

Please be advised that to the best of my knowledge:

1. Murphy's Waste Oil Service, Inc., is a corporation, existing in good standing under the laws of the Commonwealth of Massachusetts.
2. All documents which were executed at the closing were duly authorized by previous corporate action and constitute the valid and binding obligations of the corporation and the individual stockholders, John F. Murphy and Joan E. Murphy.
3. All representations made by the Sellers at the closing are true, accurate and enforceable.
4. The only litigation pending against the corporation is an action brought by William Murphy d/b/a Bill Murphy Waste Oil (Middlesex Superior Court Doc. No. 87-6155) for injunctive relief, which action is still pending and for which the Sellers will continue to be responsible.

Very truly yours,

Edward S. Guidoboni

ESG/mlw

8032-0113



THIS CERTIFICATE

BEAT Joan E. Murphy

is the owner of

TEN

Shares of the Capital Stock of

transferable only on the books of the Corporation by the holder hereof in person or by Attorney upon surrender of this Certificate properly endorsed.

In Witness Whereof, the said Corporation has caused this Certificate to be signed by its duly authorized officers and to be sealed with the Seal of the Corporation.

Witness my hand and seal this 1st day of January 1914
John T. Murphy

Shares Each

8032-0114

(STOCK ASSIGNMENT SEPARATE FROM CERTIFICATE 358)

(Please furnish taxpayer identification number for each assignee)

For Value Received, I hereby sell, assign and transfer unto

Clean Harbors of Kingston, Inc.

Ten (10) shares of the Common Capital Stock
of the Murphy's Waste Oil Service, Inc.

standing in my name on the books of said corporation

represented by Certificate(s) No. 1

herewith, and do hereby irrevocably constitute and appoint

attorney to transfer the said stock on the books of the within named Company with full power of
substitution in the premises.

IN PRESENCE OF

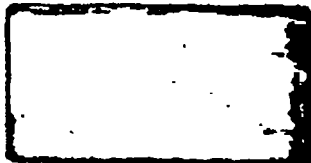
DATED

February 8, 1989

Jean E. Murphy

UNION OFFICE SUPPLY CO., BOSTON, MASS.

NOTICE: The signature(s) to this assignment must correspond with the name as written upon the face of the certificate, in every particular, without alteration or enlargement, or any change whatever and must be guaranteed by a commercial bank, trust company or member firm of the Boston, New York or Midwest Stock Exchange.



8032-0115

(STOCK ASSIGNMENT SEPARATE FROM CERTIFICATE NO.)

(Please furnish taxpayer identification number for each assignee)

Bar Walter Herrturb, I hereby sell, assign and transfer unto

Clean Harbors of Kingston, Inc.

ninty (90) shares of the Common Capital Stock
of the Murphy's Waste Oil Service, Inc.

standing in my name on the books of said CORPORATION

represented by Certificate(s) No. 2

herewith, and do hereby irrevocably constitute and appoint

attorney to transfer the said stock on the books of the within named Company with full power of
substitution in the premises.

IN WITNESS OF

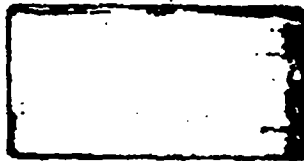
[Signature]

DATED February 8, 1969

John F. Murphy

[Signature]

NOTICE: The signature(s) to this assignment must correspond with the name as written upon the face of the certificate. In every particular, without alteration or endorsement, or any change whatever and must be guaranteed by a commercial bank, trust company or member firm of the Boston, New York or Midwest Stock Exchanges.



8032-0117

Stock Distribution

Clean Harbors of Kingston, Inc.

Distributed all of the stock for

Murphy's Waste Oil Service, Inc.

To

Clean Harbors, Inc.

October 20, 1989

10. MR. FRANK, INC.

- A. Company was formed as an Illinois corporation on March 30, 1964.
- B. Mr. Frank, Inc. was acquired by Clean Harbors, Inc., as a wholly-owned subsidiary, on July 30, 1992.

11. MURPHY'S WASTE OIL SERVICE, INC.

- A. Company was formed as a Massachusetts corporation on January 12, 1972.
- B. Company was acquired by Clean Harbors of Kingston, Inc. on February 8, 1989.
- C. On October 20, 1989 Clean Harbors of Kingston, Inc. distributed all of the stock of Murphy's Waste Oil Service, Inc. to Clean Harbors, Inc.

12. SPRING GROVE RESOURCE RECOVERY, INC.

- A. Company was formed as a Delaware corporation on June 22, 1990.
- B. Acquired by Clean Harbors, Inc., as a wholly-owned subsidiary, on February 16, 1993.

13. CLEAN HARBORS TECHNOLOGY CORPORATION

- A. Formed as a Massachusetts corporation and wholly-owned subsidiary of Clean Harbors, Inc. on November 17, 1992.
- B. Merged into Clean Harbors Environmental Services Corporation on February 1, 1997.

[FORMED AFTER 1994 END OF INFORMATION REQUEST]

14. HARBOR MANAGEMENT CONSULTANTS, INC.

- A. Company was formed as a Massachusetts corporation and a wholly-owned subsidiary of Clean Harbors, Inc. on July 15, 1998.

Annual Report demonstrating

Clean Harbors, Inc.

Still in existence

February 20, 2004



The Commonwealth of Massachusetts

William Francis Galvin

Secretary of the Commonwealth

One Ashburton Place, Boston, Massachusetts 02108-1512

Telephone: (617) 727-9640

NOTE: PLEASE TYPE OR PRINT CLEARLY! INSTRUCTIONS ON OTHER SIDE.

Fee \$125.00

040043761

MASSACHUSETTS CORPORATION ANNUAL REPORT

Federal Identification No. 042997780 ✓

1. The exact name of the corporation is: Clean Harbors, Inc.

2. Location of its principal office in Massachusetts 1501 Washington Street

Braintree

MA

02185-9048

NOTE: If corporation is organized wholly to do business outside Massachusetts, state location of that office also:

N/A

3. Name and address of the Resident Agent, if any: C T Corporation

101 Federal Street

Boston

MA

02110

4. Date of the end of the last fiscal year was: December 31 2003

5. Check here if the corporation stock is publicly traded: ☒

6. The capital stock of each class as of the end of its last fiscal year was:

CLASS OF STOCK	PAR VALUE PER SHARE STATE IF NO PAR	TOTAL AUTHORIZED BY ARTICLES OF ORGANIZATION OR AMENDMENTS		TOTAL ISSUED AND OUTSTANDING Number of Shares
		Number of Shares	Total Par Value	
COMMON:	.01	20,000,000	\$200,000,000	10,420,870 outstanding
PREFERRED:	Series A .01	2,000,000		0 Issued
	Series B .01	158,416		112,000 issued

7. State the names and addresses of the officers specified below and of all the directors of the corporation, and the date on which the term of office of each expires:

OFFICERS	NAME	ADDRESS	EXPIRATION OF TERM
		Number, Street, City or Town, State, Zip Code	
PRESIDENT TREASURER CLERK DIRECTORS	SEE ATTACHED LIST		

I, the undersigned, Stephen Moynihan, being the Vice President of the above-named corporation, in compliance with the General Laws, Chapter 156B, hereby certify that the above information is true and correct as of the dates shown. IN WITNESS WHEREOF AND UNDER PENALTIES OF PERJURY, I hereto sign my name on this

20th

day of February

2004

Signature:

Stephen Moynihan
MUST BE ORIGINAL

Title:

Vice President

Contact Person:

Monica Murphy

Contact Person Telephone #:

781-849-1800

CLEAN HARBORS, INC.

Federal Identification No. 04-2997780

President

Alan S. McKim 1501 Washington St, Braintree, MA 02185-9048 Until

Treasurer

Carl Paschetag 1501 Washington St, Braintree, MA 02185-9048 Successors

Clerk

C. Michael Malm One Boston Place, Boston, MA 02108 Are Elected

Vice President

Stephen Moynihan 1501 Washington St, Braintree, MA 02185-9048 And

Directors

Alan S. McKim 1501 Washington St, Braintree, MA 02185-9048 Qualified

John F. Kaslow 5 Wescott Road, Andover, MA 01810

Daniel J. McCarthy 104 Myer Road, Hamilton, MA 01936

Lorne R. Waxlax 950 Reef Road, Vero Beach, FL 32963

John T. Preston 9 Martins Cove Lane, Hingham, MA 02043

Thomas Shields 150 Federal St, 11th Floor, Boston, MA 02110

John DeVillars 137 Newbury Street, Boston, MA 02116

John D. Barr 149 Netas Drive, Palm Desert, CA 92260

Clean Harbors

**claims that all employees no matter the entity
are employed by Clean Harbors**

**Supporting documentation provided in
104e response (8032-0021)**

Harbor Management Consultants, Inc. (30 Joseph Street, Kingston, MA)

Northeast Casualty Risk Retention Group, Inc. (captive insurance company, 1501 Washington Street, Braintree, MA)

All of the responses provided below are the responses of Clean Harbors, Inc. and/or the applicable subsidiary corporation.

Of further note, Clean Harbors, Inc. and all subsidiaries except Clean Harbors Environmental Services, Inc. have no employees. All Clean Harbors employees, regardless of whether they are employed at Corporate Headquarters, at a TSDP, at a field services or sales office, or at a waste oil facility (e.g., Murphy's Waste Oil Service, Inc.), in the continental United States and Puerto Rico, are on the payroll of Clean Harbors Environmental Services, Inc. and considered to be employees of "Clean Harbors", regardless of the name of the corporate entity where they are located.

[Response provided by Jules B. Selden]

1.b Jules B. Selden, Esquire
Senior Counsel
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048
(781) 849-1800, ext. 4182
(781) 356-1375 (fax)

William F. O'Connor *
Vice President, Human Resources
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Stephen Moynihan *
Senior Vice President
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

Carl Paschetag, Jr. *
Vice President and Controller
Clean Harbors Environmental Services, Inc.
1501 Washington Street
P.O. Box 859048
Braintree, MA 02185-9048

NOTES RELATIVE TO

1st PIS file
BOSTON DEQE

SUBJECT: John J. Riley Company, 228 Salem Street
Woburn, Mass.

BY: Robert Cleary RC

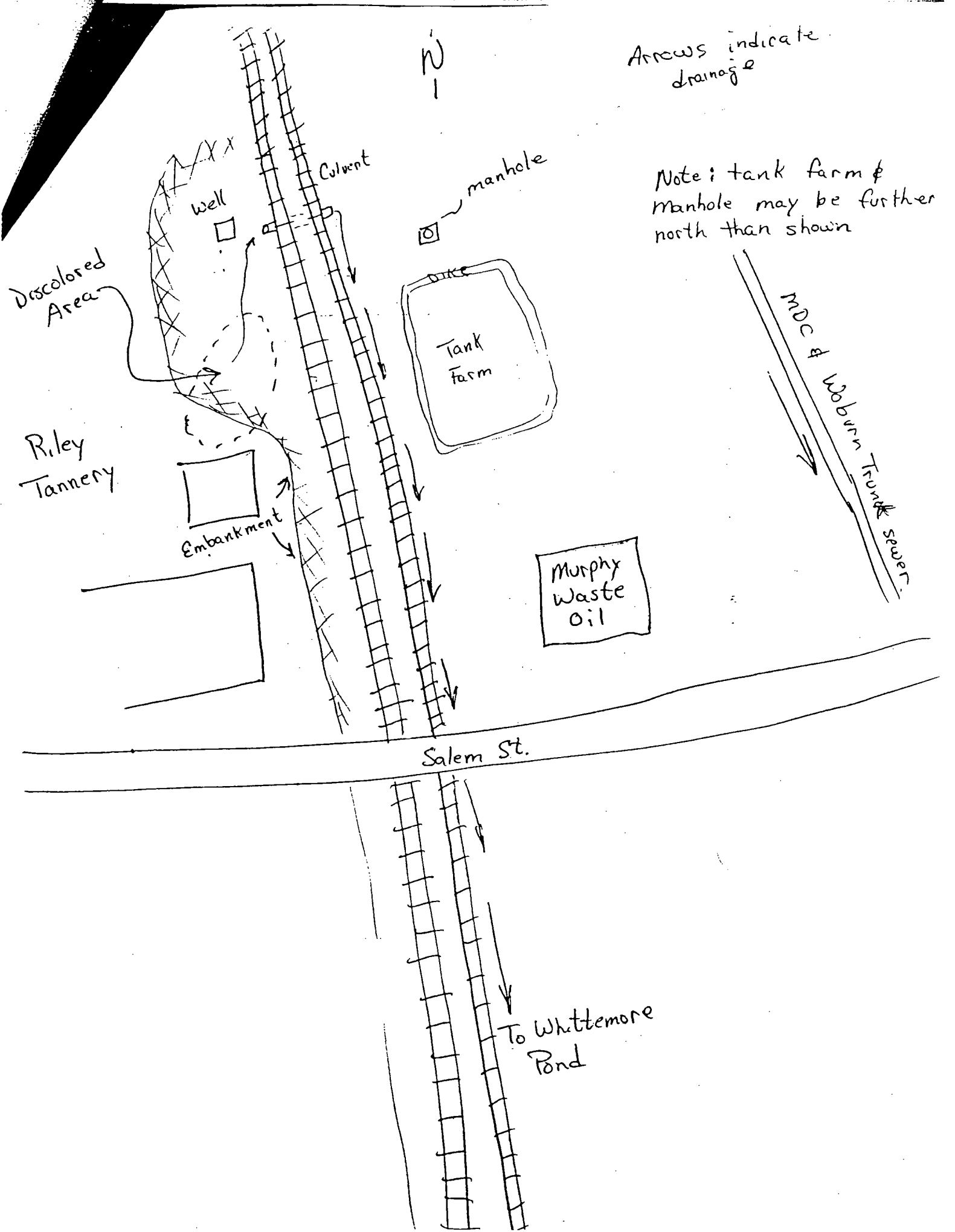
DATE: July 7, 1981

On July 1, 1981 the writer accompanied Mr. Richard Leighton of the EPA and Ms. Susan Titus, an Image Analyst, working with the EPA Environmental Photo Interpretation Center, on a tour of Woburn in order to verify from the ground their interpretation of aerial photographs of East and North Woburn. During this trip we walked the Boston and Maine Railroad tracks near the Riley Company tannery on Salem Street. Two observations of possible environmental concern were noted. First, on the slope leading down from the tannery to the railroad tracks we observed yellow and gray colored material that appeared to be dumped down the embankment. Drainage from this embankment enters a culvert at the railroad tracks, crosses under the tracks and empties into the drainage ditch on the east side of the tracks. This ditch flows south to the wetlands north of Whittemore Pond. In a section of the ditch from the outfall of the culvert down as far as Salem Street there was a whitish material covering the rocks.

The second observation concerns a manhole on the east side of the rail tracks. It is located 10-15 feet north of the dike around Murphy Waste Oil's storage tanks. The manhole was surrounded by fresh sand and gravel. The material was discolored blue and had small pieces of blue material intermixed with it. It is the writer's opinion that the blue material was scraps of tanned "blue sides" leather. The writer has no explanation for the placement of this fill around the manhole except that it was used to cover or absorb material spilled near the manhole-or flowing out the manhole, or that the manhole had been raised recently.

RC/lmm

006029 C /



Arrows indicate drainage

Note: tank farm & manhole may be further north than shown

Discolored Area

Well

Colvent

manhole

Tank farm

Riley Tannery

Embankment

Murphy Waste Oil

Salem St.

To Whittemore Pond

MDC & Woburn Tank sewer

WOBURN VTR

MEMORANDUM

TO: Ed Pawlowski *E.P. 2/14/86*
FROM: S. Shapiro
DATE: February 13, 1986
SUBJECT: Compliance with license suspension, Order of January 2, 1986
Murphy's Waste Oil Service
Ashland Industrial Fuel

I visited the above mentioned facilities, as directed, on February 10, 1986 to assure compliance with Department orders to suspend facility licenses due to the lack of a financial mechanism meeting requirements of 310 CMR 30.908. The following is a description of the results of my visits to the facilities:

Murphy's Waste Oil Service MAD 06658805

I met Joan Murphy at the facility and followed her directly to her home to view Daily Pick-up Manifests for activities occurring between February 3, 1986 and February 7, 1986. Fifty clients were served during this time resulting in 10,500 gallons of oil being delivered to Cyn Oil in Stoughton. Three thousand gallons, picked up on February 3, 1986 were stored on Truck D-1 until February 10, 1986 when it was delivered to a client (Manifest for February 10, 1986 was not available). Generator's names were on file with receipts, logs and signatures included.

Ashland Industrial Fuel MAD 980579213

I met with John Glynn, President and Lisa Glynn at the facility office. Mr. Glynn has arranged hazardous waste storage with Zecco, Inc. in Northboro. An arrangement is in progress to "swap" used oil for new fuel oil to be stored in clean tanks at AIF. Mr. Glynn is in the process of negotiating for insurance coverage compliant with 310 CMR 30.908. The company uses the Uniform Hazardous Waste Manifest for recording. Since copies of the manifest go to the Department, I obtained copies of those available for February 7, 1986 only as examples. Other manifests designated Zecco as destination and were properly receipted. Note that manifest prepared by Poly-Structure is of the form declared obsolete as of April 1985.

SS/ae

ROLL 01

NOTICE: If the film image is less clear than this notice, it is due to the quality of the document being filmed

0155

006061 B



Transportation
& Disposal



CleanPack Lab
Chemical Packing



Field Services &
Emergency Response



Industrial
Services

For Information On

Investor Home

About Us

Analyst Coverage

Annual Reports

Calendar of Events

Company News

Contact Us

Corporate Governance

- Executive Management & Directors
- Board Committee Memberships
- CEO & CFO Form 10K Certification
- Code of Ethics
- Insiders' Section 16 Forms

Frequently Asked Questions

Investor Fact Sheet

Investor Order Center

SEC Filings

Shareholder Services

Investor Relations

Letter from the CEO and Chairman

Dear Investors:

Founded in 1980, Clean Harbors has grown to be North America's premier environmental and hazardous waste management company. From transportation and disposal to emergency response and chemical packaging, Clean Harbors provides a broad spectrum of services to more than 45,000 customers in 36 U.S. states, six Canadian provinces, Mexico and Puerto Rico.

In 2006, we added substantial incineration capacity, in part through the acquisition of Teris, an environmental services company based in Dallas, Texas that we acquired in mid-August. We constructed several secure landfill cells, upgraded many of our facilities, expanded our transportation fleet and exceeded our targets for health, safety and compliance. Moreover, we opened six Site Services locations throughout the United States, in line of our successful strategy to expand our footprint and introduce the Clean Harbors brand into new markets.

As a result of these efforts, we delivered another set of record results in 2006. Revenue for the year totaled \$819 million, a company record and up 20 percent from 2005. We coupled this top-line growth with solid growth in our bottom-line as well. Net

Corporate Offices

Clean Harbors, Inc.
42 Longwater Drive
P.O. Box 9149
Norwell, MA 02061-9149
781.792.5000
Directions to Corporate Office

Chairman and CEO

Alan S. McKim
Since 1980

Stock

Clean Harbors stock is traded on the NASDAQ stock exchange under the symbol **CLHB**.





income for 2006 was \$46.4 million or \$2.26 per diluted share. This translates to a growth rate of 83% over net income of \$25.3 million or \$1.45 per share for 2005.

Looking ahead, expansion will remain the theme for Clean Harbors as we look to continue growing our market share, increasing our profitability and delivering further value to our shareholders. We see opportunities to enhance revenues by opening additional offices in North America to service our thousands of customers. We also will seek selective acquisitions that provide us with opportunities for additional scale and profits. At the same time, we are working to further streamline our operations to drive further leverage in our operating model.

We are proud of our accomplishments and are excited about what the future holds for Clean Harbors. I look forward to updating you on our progress.

Sincerely,
Alan S. McKim
President, CEO and Chairman

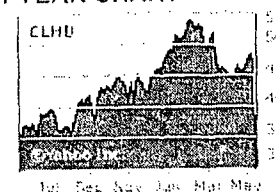
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CLHB - NMS **\$46.84**
CLEAN HARBORS INC

1 YEAR CHART



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CLHB WEBCAST

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**Rebroadcast from
Wednesday, May 9, 2007**

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Clean Harbors First-Quarter
2007 Financial Results
Conference Call over the
Internet

For other Clean Harbors

webcasts and presentations, click
here.

Any statements contained herein that are not historical facts are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, and involve risks and uncertainties. These forward-looking statements are generally identifiable by use of the words "believes," "expects," "intends," "anticipates," "plans to," "estimates," "projects," or similar expressions. These forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from those reflected in these forward-looking statements. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect management's opinions only as of the date hereof. The Company undertakes no obligation to revise or publicly release the results of any revision to these forward-looking statements other than through its various filings with the Securities and Exchange Commission.

A variety of factors beyond the control of the Company affect the Company's performance, including, but not limited to:

- The Company's ability to successfully integrate Teris' operations and assets into its existing network of services and disposal facilities;
- The Company's ability to manage the significant environmental liabilities which it assumed in connection with the CSD and Teris acquisitions;
- The availability and costs of liability insurance and financial assurance required by governmental entities relating to our facilities;
- The effects of general economic conditions in the United States, Canada and other territories and countries where the Company does business;
- The effect of economic forces and competition in specific marketplaces where the Company competes;
- The possible impact of new regulations or laws pertaining to all activities of the Company's operations;
- The outcome of litigation or threatened litigation or regulatory actions;
- The effect of commodity pricing on overall revenues and profitability;
- Possible fluctuations in quarterly or annual results or adverse impacts on the Company's results caused by the adoption of new accounting standards or interpretations or regulatory rules and regulations;
- The effect of weather conditions or other aspects of the forces of nature on field or facility operations;
- The effects of industry trends in the environmental services and waste handling marketplace; and
- The effects of conditions in the financial services industry on the availability of capital and financing.

Any of the above factors and numerous others not listed nor foreseen may adversely impact the Company's financial performance. Additional information on the potential factors that could affect the Company's actual results of operations is

included in its filings with the Securities and Exchange Commission, which may be viewed on the Investor portal of the Company's Web Page at www.cleanharbors.com.

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Press Release

Clean Harbors Closes Equity Offering of 2.3 Million Shares of Common Stock

Braintree, MA – December 13, 2005 – Clean Harbors, Inc. (“Clean Harbors”) (NASDAQ: CLHB), the leading provider of environmental and hazardous waste management services throughout North America, today announced that it has closed its public offering of 2.3 million shares of its common stock, which included 300,000 shares of common stock issued upon exercise by the underwriters of their over-allotment option. After deducting the underwriting discount and offering expenses, the Company received net proceeds of approximately \$60.3 million from the offering. Following the closing, common shares outstanding total approximately 19.4 million.

The Company will use net proceeds from the offering to redeem \$52.5 million, or 35%, of Clean Harbors’ outstanding 11.25% senior secured notes due 2012 and pay the prepayment penalty and accrued interest relating to the redemption. That redemption will be completed in January 2006. Following the redemption, the annual rate on the Company’s \$50 million secured synthetic letter of credit facility, which was announced on December 1, 2005, will be reduced from 3.10% to 2.85%.

The offering was lead managed by Credit Suisse First Boston. Needham & Company, LLC and Wedbush Morgan Securities acted as co-managers.

A registration statement relating to the common stock offering was filed with the Securities and Exchange Commission and was declared effective on December 7, 2005. Copies of the prospectus may be obtained by visiting the SEC’s website at www.sec.gov or by contacting Credit Suisse First Boston, One Madison Avenue, Prospectus Department, New York, New York 10010-3629 (Telephone number: 212-325-2580). This announcement shall not constitute an offer to sell or the solicitation of an offer to buy, nor shall there be any sale of the common stock in any state in which such offer, solicitation or sale would be unlawful prior to registration or qualification under the securities laws of any such state.

About Clean Harbors, Inc.

Clean Harbors, Inc. is North America’s leading provider of environmental and hazardous waste management services. With an unmatched infrastructure of 48 waste management facilities, including nine landfills, five incineration locations and seven wastewater treatment centers, the Company provides essential services to over 45,000 customers, including more than 175 Fortune 500 companies, thousands of smaller private entities and numerous federal, state and local governmental agencies. Headquartered in Braintree, Massachusetts, Clean Harbors has more than 100 locations strategically positioned throughout North America in 36 U.S. states, six Canadian provinces, Mexico and Puerto Rico. For more information, visit www.cleanharbors.com.



Press Release

Clean Harbors Closes Equity Offering of 2.3 Million Shares of Common Stock

Safe Harbor Statement

Any statements contained herein that are not historical facts are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, and involve risks and uncertainties. These forward-looking statements are generally identifiable by use of the words “believes,” “expects,” “intends,” “anticipates,” “plans to,” “estimates,” “projects,” or similar expressions. These forward-looking statements are subject to certain risks and uncertainties that could cause actual results to differ materially from those reflected in these forward-looking statements. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect management’s opinions only as of the date hereof. The Company undertakes no obligation to revise or publicly release the results of any revision to these forward-looking statements. Furthermore, all financial information in this press release is unaudited, and may change materially upon completion of the audit of the Company’s financial statements. A variety of factors beyond the control of the Company affect the Company’s performance, including, but not limited to:

- The effects of general economic conditions in the United States, Canada and other territories and countries where the Company does business;
- The effect of economic forces and competition in specific marketplaces where the Company competes;
- The possible impact of new regulations or laws pertaining to all activities of the Company’s operations;
- The outcome of litigation or threatened litigation or regulatory actions;
- The effect of commodity pricing on overall revenues and profitability;
- Possible fluctuations in quarterly or annual results or adverse impacts on the Company’s results caused by the adoption of new accounting standards or interpretations or regulatory rules and regulations;
- The effect of weather conditions or other aspects of the forces of nature on field or facility operations;
- The effects of industry trends in the environmental services and waste handling marketplace;
- The effects of conditions in the financial services industry on the availability of capital and financing;
- The Company’s ability to manage the significant environmental liabilities, which it assumed in connection with the CSD acquisition; and
- The availability and costs of liability insurance and financial assurance required by governmental entities relating to our facilities.

Any of the above factors and numerous others not listed nor foreseen may adversely impact the Company’s financial performance. Additional information on the potential factors that could affect the Company’s actual results of operations is included in its filings with the Securities and Exchange Commission, and its subsequent reports on Form 10-Q, which are filed with the SEC and the Annual Report on Form 10-K/A for the fiscal year



Press Release

Clean Harbors Closes Equity Offering of 2.3 Million Shares of Common Stock

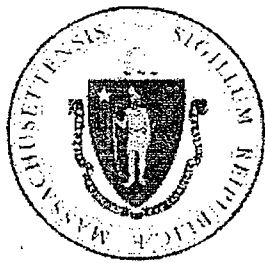
ended December 31, 2004, which the Company filed on April 29, 2005, and subsequent quarterly and/or other reports filed with the SEC since then, which may be viewed on the Investor portal of the Company's Web Page at www.cleanharbors.com.

Contact:

Investor Relations
Clean Harbors, Inc.
781.849.1800, ext. 4191
InvestorRelations@cleanharbors.com

Jason Fredette
Associate Vice President
Sharon Merrill Associates, Inc.
617.542.5300
clhb@investorrelations.com





**The Commonwealth of Massachusetts
William Francis Galvin**

Secretary of the Commonwealth
One Ashburton Place, Boston, Massachusetts 02108-1512
Telephone: (617) 727-9640

CLEAN HARBORS ENVIRONMENTAL SERVICES, INC. Summary Screen



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The exact name of the Domestic Profit Corporation: CLEAN HARBORS ENVIRONMENTAL SERVICES, INC.

The name was changed from: CLEAN HARBORS OF KINGSTON, INC. on 12/31/92

The name was changed from: CLEAN HARBORS, INC. on 2/3/86

Merged with : CLEAN HARBORS TECHNOLOGY CORPORATION on 2/1/97

Entity Type: Domestic Profit Corporation

Status: Active

Identification Number: 042698999

Old Federal Employer Identification Number (Old FEIN): 000156423

Date of Organization in Massachusetts: Mar 24 1980

Current Fiscal Month / Day: 12 / 31

Previous Fiscal Month / Day: 02 / 28

The location of its principal office in Massachusetts:

No. and Street: 1501 WASHINGTON ST., P. O. BOX 859048

City or Town: BRAINTREE

State: MA Zip: 02185 Country: USA

If the business entity is organized wholly to do business outside Massachusetts, the location of that office:

No. and Street:

City or Town:

State:

Zip:

Country:

The name and address of the Registered Agent:

Name: CT CORPORATION SYSTEM

No. and Street: 101 FEDERAL ST.

City or Town: BOSTON

State: MA Zip: 02110 Country: USA

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	Expiration of Term

PRESIDENT	ALAN S. MCKIM	74 SCHOOL ST. HINGHAM, MA 02043 USA	NONE
TREASURER	CARL PASCHETAG	61 MORTON ST. SWAMPSCOTT, MA 01907 USA	NONE
SECRETARY	C. MICHAEL MALM	63 ATLANTIC AVE., UNIT 6A BOSTON, MA 02110 USA	NONE
DIRECTOR	ALAN S. MCKIM	74 SCHOOL ST. HINGHAM, MA 02043 USA	NONE

business entity stock is publicly traded: ☐

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding Num of Shares
		Num of Shares	Total Par Value	
CWP	\$0.01000	87,700	\$877.00	0
PWP	\$0.01000	12,300	\$123.00	0

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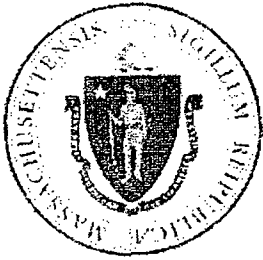
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William Francis Galvin

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CLEAN HARBORS KINGSTON FACILITY CORPORATION Summary
Screen



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The exact name of the Domestic Profit Corporation: CLEAN HARBORS KINGSTON FACILITY CORPORATION

Entity Type: Domestic Profit Corporation

Status: Active

Identification Number: 043074299

Old Federal Employer Identification Number (Old FEIN): 000316262

Date of Organization in Massachusetts: Oct 23 1989

Current Fiscal Month / Day: 12 / 31

Previous Fiscal Month / Day: 02 / 28

The location of its principal office in Massachusetts:

No. and Street: P. O. BOX 850327

1501 WASHINGTON ST.

City or Town: BRAINTREE

State: MA Zip: 02185 Country: USA

If the business entity is organized wholly to do business outside Massachusetts, the location of that office:

No. and Street:

City or Town:

State:

Zip:

Country:

The name and address of the Registered Agent:

Name: CT CORPORATION SYSTEM

No. and Street: 101 FEDERAL STREET

City or Town: BOSTON

State: MA Zip: 02110 Country: USA

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	Expiration of Term
PRESIDENT	EUGENE COOKSON	1501 WASHINGTON ST., BRAINTREE, MA 02185 USA 1501 WASHINGTON ST., BRAINTREE, MA 02185 USA	
TREASURER	CARL PASCHETAG	1501 WASHINGTON ST.,	

BRAINTREE, MA 02185 USA
1501 WASHINGTON ST.,
BRAINTREE, MA 02185 USA

business entity stock is publicly traded:

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding
		<i>Num of Shares</i>	<i>Total Par Value</i>	
No Stock Information available online. Prior to August 27, 2001, records can be obtained on microfilm.				

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☐ Partnership ☐ Resident Agent ☐ For Profit ☐ Merger Allowed

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Annual Report

Application for Reinstatement

Application For Revival

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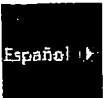
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Listings

Clean Harbors
74 School Street, Hingham, MA 02043
[phone](#) | [map](#) | [save](#)

Clean Harbors
34 Riley Way, Lynn, MA 01905
[phone](#) | [map](#) | [save](#)

Clean Harbors Environmental
190 Brookdale Drive, Springfield, MA 01104
[phone](#) | [map](#) | [save](#)

Clean Harbors Environmental SVCS
238 Cherry Street, Shrewsbury, MA 01545
[phone](#) | [map](#) | [save](#)

Clean Harbors Environmental Services Inc
10 Joseph Street, Kingston, MA 02364
[phone](#) | [map](#) | [save](#)

Clean Harbors Environmental Services Inc - Commercial Training
10 Joseph Street, Kingston, MA 02364
[phone](#) | [map](#) | [save](#)

Clean Harbors Environmental Services Inc - Commercial Training
100 Joseph, Chelsea, MA 02150
[phone](#) | [map](#) | [save](#)

Clean Harbors Environmental Services Inc - Corporate Headquarters
1501 Washington Street, Braintree, MA 02184
[phone](#) | [map](#) | [save](#)

Clean Harbors Environmental Services Inc - Field Service Office

530 East 1st Street, Boston, MA 02127

[phone](#) | [map](#) | [save](#)

Clean Harbors Environmental Services Inc - General Welding

609 Pleasant Street, Weymouth, MA 02189

[phone](#) | [map](#) | [save](#)

Clean Harbors Inc

238 Cherry Street, Shrewsbury, MA 01545


[phone](#) | [map](#) | [save](#)


<http://www.cleanharbors.com>

Clean Harbors of Natick Inc

10 Mercer Road, Natick, MA 01760

[phone](#) | [map](#) | [save](#)

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The Commonwealth of Massachusetts
William Francis Galvin

Secretary of the Commonwealth
 One Ashburton Place, Boston, Massachusetts 02108-1512
 Telephone: (617) 727-9640

MURPHY'S WASTE OIL SERVICE INC. Summary Screen



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The exact name of the Domestic Profit Corporation: MURPHY'S WASTE OIL SERVICE INC.

Entity Type: Domestic Profit Corporation

Status: Active

Identification Number: 042490849

Old Federal Employer Identification Number (Old FEIN): 074299849

Date of Organization in Massachusetts: Jan 12 1972

Current Fiscal Month / Day: 12 / 31

Previous Fiscal Month / Day: 02 / 28

The location of its principal office in Massachusetts:

No. and Street: P. O. BOX 850327

1501 WASHINGTON ST.

City or Town: BRAINTREE

State: MA Zip: 02185 Country: USA

If the business entity is organized wholly to do business outside Massachusetts, the location of that office:

No. and Street:

City or Town:

State:

Zip:

Country:

The name and address of the Registered Agent:

Name:

No. and Street:

City or Town:

State:

Zip:

Country:

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	Expiration of Term
PRESIDENT	EUGENE COOKSON	1501 WASHINGTON ST., BRAINTREE, MA 02185 USA 1501 WASHINGTON ST., BRAINTREE, MA 02185 USA	

TREASURER	CARL PASCHETAG	1501 WASHINGTON ST., BRAINTREE, MA 02185 USA 1501 WASHINGTON ST., BRAINTREE, MA 02185 USA	
SECRETARY	C T CORPORATION SYSTEM	101 FEDERAL ST., BOSTON, MA 02110 USA 101 FEDERAL ST., BOSTON, MA 02110 USA	

business entity stock is publicly traded: ____

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding
		<i>Num of Shares</i>	<i>Total Par Value</i>	<i>Num of Shares</i>
No Stock Information available online. Prior to August 27, 2001, records can be obtained on microfilm.				

☐ Consent ☐ Manufacturer ☐ Confidential Data ☐ Does Not Require Annual Report
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